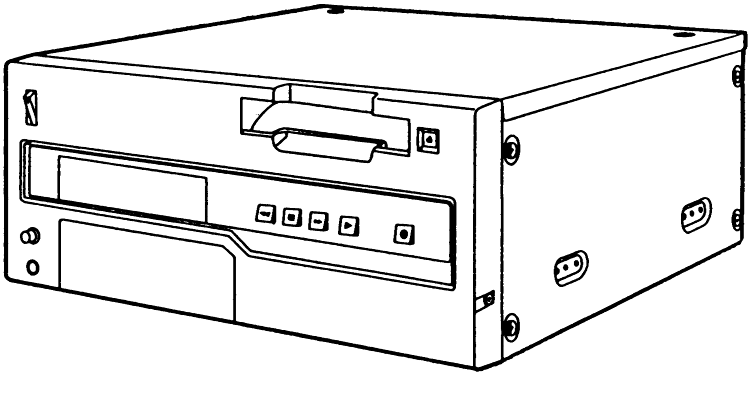
ORDER NO. BSD0101M603S

Service Manual

DVCPRO

DVCPRO Studio VTR

AJ-D450AE



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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Introduction

AJ-D450AE was equipped with the SDI Interface board (AJ-YA750P) to AJ-D450E.

Please refer to the following the Service Manuals.

AJ-D450E Vol.1, Order No. VSD9907M904A (or CD-ROM)

AJ-D450E Vol.2, Order No. VSD9907M904B

Specifications

GENERAL

Power supply:	AC 220 V – 240 V, 50 – 60 Hz
Power consumption:	AJ-D440; 130 W AJ-D450A; 150 W

Operating ambient temperature:	5°C to 40°C
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440; 14.6 kg AJ-D450A; 15.9 kg
Dimensions (W × H × D):	424 × 175.2 × 415 mm
Recording format:	DVCPRO format
Recording tracks:	Digital video Time code; Recorded in sub-code area Digital audio; 2 channels Cue Signal; 1 track Control (CTL); 1 track
Tape speed:	33.854 mm/sec.
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analogue component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (±1.0 dB) PB, PR; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analogue component IN/component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) PB, PR; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analogue composite IN/composite OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3°
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analogue component input*:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Reference input:	Analogue composite BNC × 2, loop-through, 75Ω on/off
Serial digital component input*:	Complies with EBU Tech. 3267-E standard, BNC × 2, active through

(Video output connector)

Analogue component output:	BNC × 3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output:	BNC × 3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (AJ-D440: option):	Complies with EBU Tech. 3267-E standard, BNC × 3

(Video signals adjustment)

Video output gain:	±3 dB	Control from ENCODER REMOTE connector
Video output chroma gain:	±3 dB	
Video output chroma phase:	±30°	
Video output black level:	±100 mV	
Video output sync phase:	±2 µsec	
Video output SC phase:	±180°	

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	18 dB
De-emphasis:	T1 = 50 µsec/T2 = 15 µsec (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analogue input (CH1/CH2):	XLR × 2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital input (option):	Complies with EBU Tech. 3267-E standard (BNC)

(Audio output connector)

Analogue output (CH1/CH2):	XLR × 2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital output (option):	Complies with EBU Tech. 3267-E standard (BNC)
Monitor output:	Phono×1, 600Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC × 1, 0.5 to 8 Vp-p
Time code output:	BNC × 1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

*** Items marked with an asterisk (*) indicate AJ-D450A only.**

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

ORDER NO. VSD9907M904A
D20

Service Manual

Vol. 1

DVCPRO
DIGITAL VIDEO CASSETTE

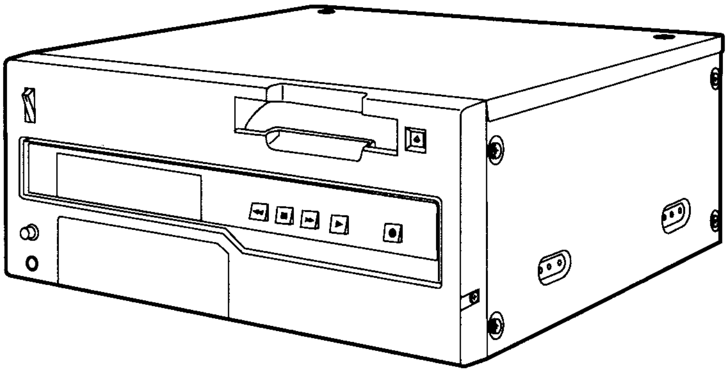
- Sec. 1 *Operating Instructions*
- Sec. 2 *Service Information*
- Sec. 3 *Maintenance & Mechanism Adjustments*
- Sec. 4 *Electrical Adjustments*
- Sec. 5 *Exploded Views & Replacement Parts Lists*

Digital Video Cassette Player

AJ-D440P/E

Digital Video Cassette Recorder

AJ-D450P/E



Please refer to the Service Manual Volume 2 (order No. VSD9907M904B) for Block Diagrams, Schematic Diagrams and Circuit Board Diagrams.

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⚠ WARNING

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It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicans. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains echnical information which will allow service personnels to understand and sercice the DVCPRO Studio VTR AJ-D440P/E and AJ-D450P/E.

If the part or circuit is changed or modified, this information will be followed by supplimentary service manual to be filed with original manual.

Vol. 1

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SECTION 1. Operating Instructions

SECTION 2. Service Information INF-1

SECTION 3. Maintenance & Mechanical Adjustments DIS-1

SECTION 4. Electrical Adjustments ELC-1

SECTION 5. Exploded Views & Replacement Parts List PRT-1

Specifications

AJ-D440P AJ-D450P

GENERAL

Power supply:	AC 120 V, 50 – 60 Hz
Power consumption:	AJ-D440; 120 W AJ-D450; 150 W

Operating ambient temperature:	41°F to 104°F (5°C to 40°C)
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440; 33 lbs (15 kg) AJ-D450; 34.98 lbs (15.9 kg)
Dimensions (W × H × D):	16-3/4 × 6-15/16 ×16-3/8 inches (424 × 175 × 415 mm)
Recording format:	DVCPRO format
Recording tracks:	Digital video Recorded in sub-code area Time code; 2channels Digital audio; 1 track Cue Track; 1 track Control (CTL);
Tape speed:	33.820 mm/sec
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (color framing/ standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analog component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (±1.0 dB) PB, PR; 30 Hz to 1.0 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analog component IN/component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) PB, PR; 30 Hz to 1.0 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analog composite IN/composite OUT)

Video bandwidth:	Y; 30 Hz to 4.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3°
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analog component input*:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Reference input:	Analog composite BNC×2, loop-through, 75Ω on/off
Serial digital component input (option)*:	Complies with SMPTE259M-C standard, BNC×2, active through

(Video output connector)

Analog component output:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite output:	BNC×3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with SMPTE259M-C standard, BNC×3

(Video signals adjustment)

Video output gain:	±3 dB	Control from ENCODER REMOTE connector
Video output chroma gain:	±3 dB	
Video output hue:	±30°	
Video output setup:	±15 IRE	
Video output sync phase:	±2 µs	
Video output SC phase:	±180°	

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	20 dB
De-emphasis:	T1=50 µs/T2=15 µs (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analog input (CH1/CH2):	XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital input (option):	Complies with SMPTE259M-C, 272M standard (BNC)

(Audio output connector)

Analog output (CH1/CH2):	XLR×2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital output (option):	Complies with SMPTE259M-C, 272M standard (BNC)
Monitor output:	Phono×1, 600 Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC×1, 0.5 to 8 Vp-p
Time code output:	BNC×1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

*** Items marked with an asterisk (*) indicate AJ-D450 only.**

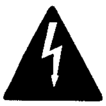
IMPORTANT
"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

AJ-D440P AJ-D450P

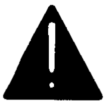
CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

WARNING:
To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

FCC Note:
This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

☐ is the safety information.

- Do not insert fingers or any objects into the video casette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the recorder when not in use.
- Do not block the ventilation slots of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Color or Black & White recording.
- Do not attempt to disassemble the recorder.
  There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the recorder examined for possible damage.
- Refer any needed servicing to authorized service personnel.

AJ-D440E AJ-D450E

Specifications

GENERAL

Power supply: AC 220 V – 240 V, 50 – 60 Hz
Power consumption: AJ-D440; 130 W
AJ-D450; 150 W

Operating ambient temperature: 5ϒC to 40ϒC
Operating ambient humidity: 10% to 90% (no condensation)
Weight: AJ-D440; 14.6 kg
AJ-D450; 15.5 kg
Dimensions (W × H × D): 424 × 175 × 415 mm
Recording format: DVCPRO format
Recording tracks: Digital video
Time code; Recorded in sub-code area
Digital audio; 2 channels
Cue Signal; 1 track
Control (CTL); 1 track
Tape speed: 33.854 mm/sec.
Recording time: 184 minutes (with AJ-5P92LP)
66 minutes (with AJ-P66MP)
Tape: 1/4-inch thin magnetic layer metal tape
FF/REW time: Less than 3 min (with AJ-5P92LP)
Less than 2 min (with AJ-P66MP)
Editing accuracy*: ±0 frame (using time code)
Tape timer accuracy: ±1 frame (using continuous CTL signal)
Servo lock time: Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)

Sampling frequencies: Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing: 8 bits
Error correction: Reed-Solomon product code

(Digital IN/analogue component OUT)

Video bandwidth: Y; 25 Hz to 5.5 MHz (±1.0 dB)
PB, PR; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio: Better than 56 dB
K factor: Less than 2%

(Analogue component IN/component OUT)

Video bandwidth: Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
PB, PR; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio: Better than 55 dB
K factor: Less than 2%

(Analogue composite IN/composite OUT)

Video bandwidth: Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
DG: Less than 4%
DP: Less than 3ϒ
Y/C delay: Better than 20 ns
K factor: Less than 3%
S/N ratio: Better than 48 dB

(Video input connector)*

Analogue component input*: BNC×3 (Y, PB, PR)
Y; 1.0 Vp-p, 75Ω
PB, PR; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input*: BNC×2, loop-through, 75Ω on/off
S VIDEO input*: S terminal (4-pin) × 1
Y; 1.0 Vp-p, 75Ω
C; 0.3 Vp-p (burst), 75Ω
Reference input: Analogue composite
BNC × 2, loop-through, 75Ω on/off
Serial digital component input (option)*: Complies with EBU Tech. 3267-E standard, BNC × 2, active through

(Video output connector)

Analogue component output: BNC × 3 (Y, PB, PR)
Y; 1.0 Vp-p, 75Ω
PB, PR; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output: BNC × 3
Video1/video2/video3 (superimpose on/off)
S VIDEO output: S terminal (4-pin) × 1
Y; 1.0 Vp-p, 75Ω
C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (option): Complies with EBU Tech. 3267-E standard, BNC × 3

(Video signals adjustment)

Video output gain: ±3 dB
Video output chroma gain: ±3 dB
Video output chroma phase: ±30ϒ
Video output black level: ±100 mV
Control from ENCODER REMOTE connector
Video output sync phase: ±2 µsec
Video output SC phase: ±180ϒ

AUDIO

(Digital audio)

Sampling frequencies: 48 kHz
Quantizing: 16 bits
Frequency response: 20 Hz to 20 kHz (±1.0 dB)
Dynamic range: Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion: Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk: Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter: Below measurable limits
Headroom: 18 dB
De-emphasis: T1 = 50 µsec/T2 = 15 µsec (on/off automatic)

(Cue track)

Frequency response: 300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analogue input (CH1/CH2): XLR × 2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option): BNC × 1, AES/EBU format
Serial digital input (option): Complies with EBU Tech. 3267-E standard (BNC)

(Audio output connector)

Analogue output (CH1/CH2): XLR × 2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option): BNC × 1, AES/EBU format
Serial digital output (option): Complies with EBU Tech. 3267-E standard (BNC)
Monitor output: Phono×1, 600Ω, –8 dBV
Headphones: Variable level, 1/4" phone, 8Ω

Other input/output connector

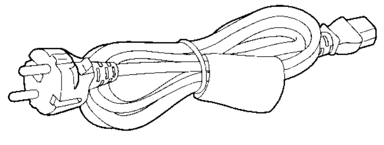
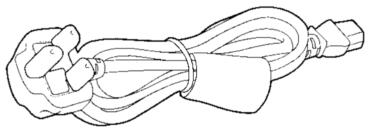
Time code input*: BNC × 1, 0.5 to 8 Vp-p
Time code output: BNC × 1, 2.0 Vp-p
RS-422A input/output: D-sub 9-pin, RS-422A interface
RS-232C: D-sub 25-pin, RS-232C interface
Encoder remote: D-sub 15-pin

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

* Items marked with an asterisk (*) indicate AJ-D450 only.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC. Not to be used in the U.K. 	**FOR U.K. ONLY** If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted. 

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

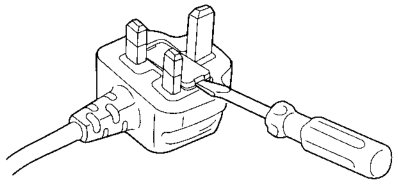
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

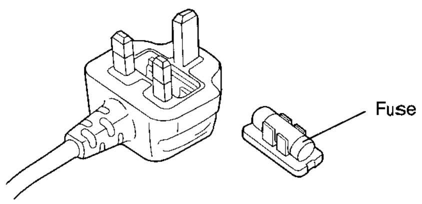
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



IMPORTANT
"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

- **THIS APPARATUS MUST BE EARTHED**
  To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.
  Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.
  The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.
- **DO NOT REMOVE PANEL COVER BY UNSCREWING**
  To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSOIRES ONLY.

CAUTION:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL.

Operating precaution
Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio singals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

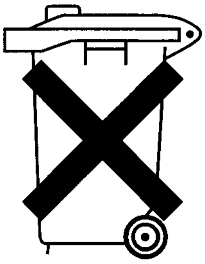
CAUTION:
Do not install or place this unit in a bookcase, built-in cabinet or another confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

☐ is the safety information.

Attention/Attentie

- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.

- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

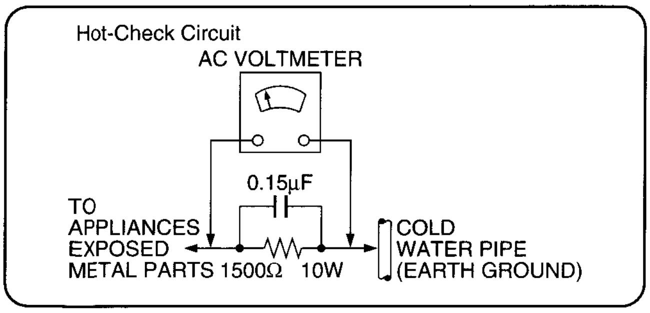

Hot-Check Circuit
AC VOLTMETER
0.15μF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 W resistor, in parallel with a 0.15μF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

SECTION 1

OPERATING INSTRUCTIONS

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Before operating this unit, check that all of its accessories are present and accounted for.

Power cord....1 pc

Option

- AJ-YA750P component serial interface board
- AJ-CS750P Cassette adaptor
- AJ-MA75P Rack mounting adaptor
- AJ-YA655P Digital Audio Interface Board
- AJ-YA752P Audio memory unit

General and Features

This unit is a digital video cassette recorder which uses 1/4-inch tapes.
It incorporates digital compression technology so that the deterioration in picture quality and sound quality resulting from dubbing is significantly minimized compared with existing analog systems.
Furthermore, since it has a compact 4U size and light weight, the unit can be carried around or mounted in a 19-inch rack with ease.
The settings for the unit's setup can be performed while viewing the screen menus on the TV monitor. With the AJ-D450 unit, both assemble and insert editing are possible through external control.

Features

Compact size and light weight

This is a 4U size digital VTR. It can be mounted in a 19-inch rack with ease using the optional rack-mounting adaptors (AJ-MA75P).

Up to 184 minutes of recording

Two sizes of cassette tapes can be used with this unit: M cassette (max. 66 minutes) and L cassette (max. 184 minutes). The width of the tapes measures 1/4 inch to achieve a compact design.

Compatibility with consumer products

Consumer cassette tapes shot with digital cameras available on the consumer market can be played back on this unit using the optional cassette adaptor (AJ-CS750P).

<Notes>

- Slow motion playback is not possible with consumer cassette tapes.
- Consumer cassette tapes recorded in LP mode cannot be played back.

Digital slow motion/jog

The slow motion playback images can be reproduced clearly at any of the speeds given below using commands from the external controller or other such device: –0.43/–0.3/–0.2/–0.1/–0.03/0/ +0.03/+0.1/+0.2/+0.3/+0.5/+0.75.

<Notes>

- Some noise may occur when the slow motion speed is changed.
- When slow motion playback is used, the image shakes slightly in the vertical direction.

Dialy shuttle operation is possible through the external controller

Shuttle operations enable the tape to be played back with color images at a speed of up to 60 times normal tape speed in either the forward or reverse direction.

Time codes

This unit comes with a built-in time code generator* (TCG)/time code reader (TCR). In addition to the internal time code, an external time code input or input signal VITC can be recorded in the machine as the LTC time code.

*** Applicable only to AJ-D450.**

Multi-function input/output interfaces (AJ-D450 only for input)

• Analog input/output

Component (Y, PB, PR) and composite and S-VIDEO signal input and output connectors are provided.

• Digital audio input/output

AES/EBU audio input/output is possible when the optional digital audio interface board (AJ-YA655P) is used.

• Serial digital input/output

Serial digital (SMPTE 259M-C, 272M) input/output is possible when the optional component serial interface board (AJ-YA750P) is used.

<Note>

The AJ-YA655P board, sold separately, is necessary when using serial digital audio (SMPTE 272M).

• 9-pin (RS-422A)/(RS-232C) remote

The standard 9-pin serial (RS-422A) connector or RS-232C connector is used.

2-channel high-sound-quality digital audio (AJ-D450 only for recording)

Sound can be edited separately for two channels, and channel mixing capabilities are also available. One channel is provided for the analog cue track.

Information selected from audio CH1 and CH2 can be recorded in the cue track memory. (Set at the set up menu.)

- Cue track input and output connectors are not provided.

Automatic editing functions from the external controller (only AJ-D450)

AJ-D450 allows both assemble and insert editing from the external controller.

Menu-driven setup

The setup settings, which are conducted prior to operating the unit, are performed while viewing the setup menus either on the unit display or TV monitor.

Features
(continued)

Multi-function input/output interfaces (AJ-D450 only for input)

• Analogue input/output

Component (Y, PB, PR) and composite and S-VIDEO signal input and output connectors are provided.

• Digital audio input/output

AES/EBU audio input/output is possible when the optional digital audio interface board (AJ-YA655P) is used.

• Serial digital input/output

Serial digital (EBU Tech. 3267-E) input/output is possible when the optional component serial interface board (AJ-YA750P) is used.

<Note>

The AJ-YA655P board, sold separately, is necessary when using serial digital audio (EBU Tech. 3267-E).

• 9-pin (RS-422A)/(RS-232C) remote

The standard 9-pin serial (RS-422A) connector or RS-232C connector is used.

2-channel high-sound-quality digital audio (AJ-D450 only for recording)

Sound can be edited separately for two channels, and channel mixing capabilities are also available. One channel is provided for the analogue cue track.
Information selected from audio CH1 and CH2 can be recorded in the cue track memory. (Set at the set up menu.)

- Cue track input and output connectors are not provided.

Automatic editing functions from the external controller (only AJ-D450)

AJ-D450 allows both assemble and insert editing from the external controller.

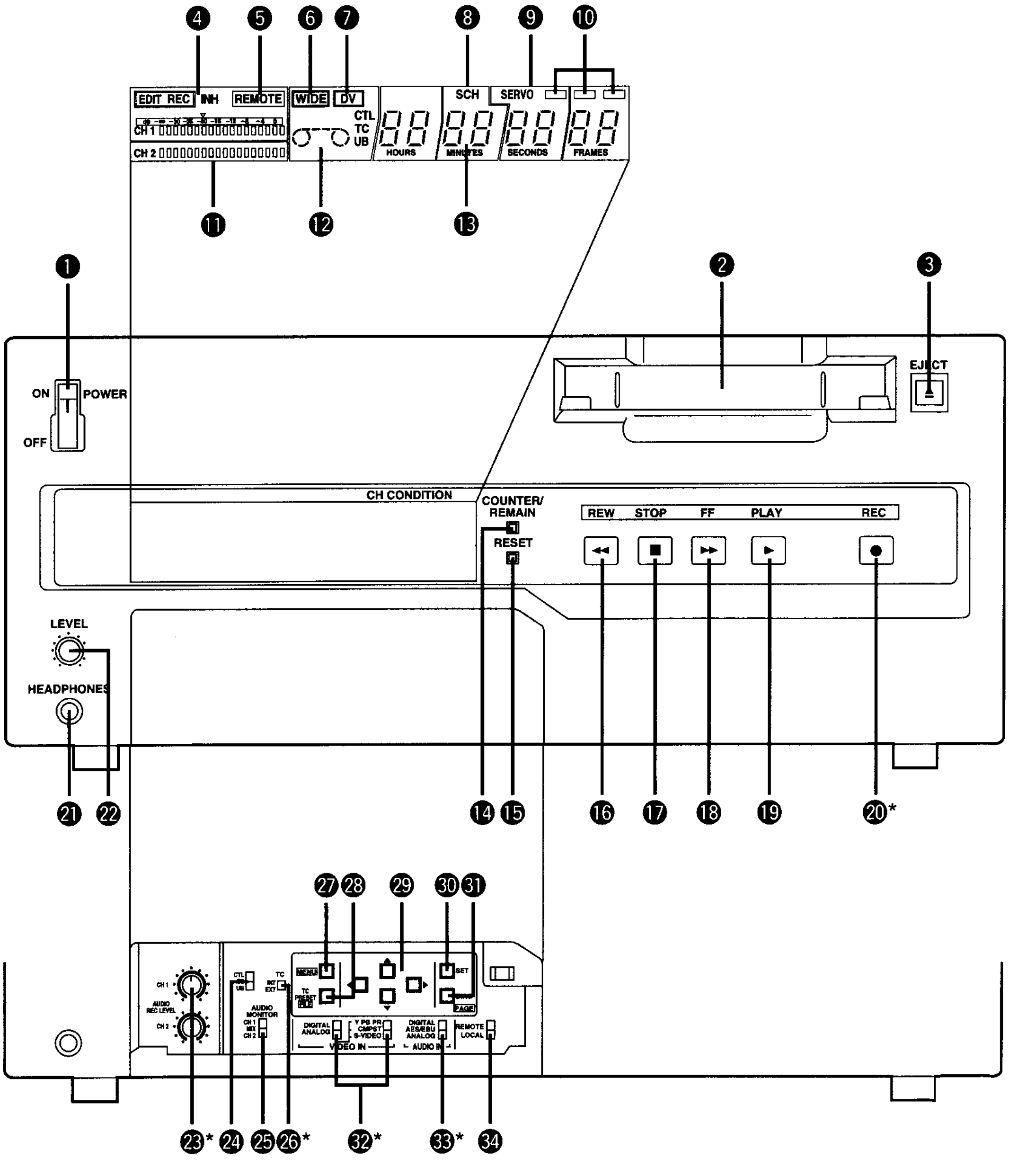
Menu-driven setup

The setup settings, which are conducted prior to operating the unit, are performed while viewing the setup menus either on the unit display or TV monitor.

Controls and their functions

Front panel

Counter Display Section


④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩
EDIT REC
INH
REMOTE
WIDE
DV
SCH
SERVO
CH 1
CH 2
CTL
TC
UB
HOURS
MINUTES
SECONDS
FRAMES
⑪ ⑫ ⑬
①
②
③
ON
POWER
OFF
EJECT
CH CONDITION
COUNTER/
REMAIN
RESET
REW
STOP
FF
PLAY
REC
LEVEL
HEADPHONES
㉑ ㉒
⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳*
㉗ ㉘ ㉙ ㉚ ㉛
CH 1
AUDIO
REC LEVEL
CH 2
CTL
UB
TC
INT
EXT
AUDIO
MONITOR
CH 1
MIX
CH 2
MENU
TC
PRESET
SET
PAGE
DIGITAL
ANALOG
Y PB PR
CMPST
S-VIDEO
VIDEO IN
DIGITAL
AES/EBU
ANALOG
AUDIO IN
REMOTE
LOCAL
㉓* ㉔ ㉕ ㉖* ㉜* ㉝* ㉞

* Applicable only to AJ-D450.

❶ POWER switch
When the ON side is pressed, the power is switched on, and the counter display lights up.

❷ Cassette insertion slot
The M cassette, L cassette and consumer cassette (S cassette) with adaptor are inserted into this slot.
Consumer cassettes can be played back only.

❸ EJECT button
When this is pressed, the tape is unloaded and several seconds later the cassette is automatically ejected. When the counter display indicates "CTL", the display is reset.

❹ EDIT/EDIT REC/REC/REC INH lamps (AJ-D450 only)
EDIT: This lights when the editing mode is chosen from the 9P remote control.
EDIT REC: This lights when editing from the 9P remote control.
REC: Thsi lights during video recording.
REC INH: This lights when the accidental erasure prevention mode has been set for the cassette. In this state, neither recording nor editing is possbile.

❺ REMOTE lamp
This lights when the REMOTE/LOCAL switch has been set to the REMOTE position.

❻ WIDE lamp
This lights when the unit is in 16:9 wide screen mode.

❼ Consumer cassette insertion display lamp
This lights when a cassette recorded on a consumer DV device has been inserted.

❽ SCH lamp
This lights when the SCH of the external sync signal is within a specific range.

❾ SERVO lamp
This lights when the drum servo and capstan servo have locked.

❿ Channel condition lamps
One of these lamps lights in accordance with the error rate status. (Green→blue→red)
Green: This lights when the error rates for the video and audio playback signals are both acceptable.
Blue: This lights when the error rate for the video or audio playback signals has deteriorated.
The playback picture will remain normal even when this lamp lights.
Red: This lights when the video or audio signals are subject to rectification or interpolation.

⓫ Level meters
These indicate the PCM audio signal CH1/CH2.
The audio signal indicates the input signal levels during recording and EE selection, and the output signal levels during playback.

⓬ Cassette insertion display lamp
This lights when a cassette has been inserted into the unit.

⓭ Counter display
This displays the TC and CTL count values, on-screen information and other messages.

Controls and their functions (continued)

⑭ COUNTER/REMAIN button
This switches between the tape counter tape time indicator and the remaining tape indicator. [r ***] is displayed in the case of the remaining tape indicator. After the cassette tape is inserted, [r – ––] (––– flashes) is displayed until remaining tape is calculated, and [r EJ] (EJ flashes) when ejecting the tape.

⑮ RESET button
When this is pressed during CTL mode, the counter returns to the 00:00:00:00 display.
During menu setup, initial setting values are restored when the RESET button is pressed.

⑯ REW button[*1]
The tape is rewound when this is pressed.
The unit goes into shuttle (SHTL) mode at –9.5 × normal tape speed when this button is pressed together with the PLAY button.

⑰ STOP button
When this is pressed, the tape stops traveling, and if the setup menu No. 111 (STOP EE SEL) is set to TAPE, still pictures can be monitored.
The drum continues to rotate even in the stop mode, and the tape remains in close contact with the drum.
If the stop mode continues for more than a certain period of time, the unit automatically switches to the standby OFF mode in order to protect the tape.
The stop mode is established immediately after a cassette has been inserted into the unit.

⑱ FF button[*1]
The tape is fast forwarded when this is pressed.
The unit goes into shuttle (SHTL) mode at +9.5 × normal tape speed when this button is pressed together with the PLAY button.

⑲ PLAY button
Playback commences when this button is pressed.
Recording commences when the button is pressed together with the REC button.

⑳ REC button (AJ-D450 only)
Recording commences when this button is pressed together with the PLAY button.
When it is pressed during playback, search[*2], fast forward or rewind, EE mode images and audio signals can be monitored for as long as it is kept depressed.
When it is pressed in the stop mode, EE mode images and sound can be monitored.
When the STOP button is pressed, the original picture and sound are restored.

[*1] The FF/REW speed can be selected on the setup menu NO. 102 (FF. REW MAX), and it is set to the same speed.
[*2] No guarantee is made for the audio EE mode.

㉑ Headphones jack

The sound being recorded, played back or edited can be monitored on stereo headphones when they are connected to this jack.

㉒ Volume control

This is used to adjust the headphones volume.

㉓ Audio recording level controls (AJ-D450 only)

These are used to adjust the recording levels of the analog audio signal CH1/CH2.

㉔ CTL/TC/UB switch

Use this switch when selecting the counter display.
CTL: Tape timer (control signal) is displayed.
TC: Time code is displayed.
UB: User bit is displayed.

㉕ MONITOR SELECT switch

This is used to select the audio signals output to the monitor channel.
(With the No. 713 (MONI CH SEL) setting on the setup menu, the display may not match the monitor output.)

㉖ INT/EXT switch (AJ-D450 only)

INT: For using the built-in time code generator.
EXT: For using the time external code which is input from the time code input connector or the video signal VITC. The selection is set at the setup menu.

㉗ MENU button

When this is pressed, the setup menu appears on the TV monitor using VIDEO OUT 3 connector, and the setup menu No. appears on the display.
When it is pressed again, the setup mode is exited and the original operating mode is restored.

㉘ TC PRESET (FILE) button (TC PRESET function: AJ-D450 only)

When this is pressed, the time code setting mode is established.
User file can be selected when the cursor buttons (◀, ▶) are used during the setup menu mode. (For details, see setup menu items on page 26.)

㉙ Cursor buttons (◀, ▶, ▲, ▼)

These are used when setting time codes and settings at menu setup.
◀, ▶: These change the flashing digit in the time code indicators.
Each time they are pressed, the flashing indicator moves incremently to the left or right.
◀ increments to the left; ▶ increments to the right.
▲, ▼: These change the flashing digit in the time code indicators.
Each time they are pressed, the indicated value increments and decrements.
▼ decrements the value; ▲ increments the value.
The flashing digit changes continuously when the button is continously pressed.
For details about operation during setup menu mode, see setup menu items (page 25).

㉚ SET button

When this is pressed, the data which has been set on the setup menu is entered. After data entry, the setup mode is exited and the original operating mode is restored.

㉛ DIAG button

When this is pressed, VTR information is displayed. When it is pressed again, the original display is restored.
There are two types of VTR information: "HOURS METER" information and "WARNING" information. Swithcing between these types is enabled by pressing the cursor buttons (◀, ▶).
Indicated on the "HOUR METER" screen are the power-on time, drum rotation time, tape travel time, loading count, etc.
Indicated on the "WARNING" screen are the warnings.

㉜ VIDEO INPUT switch (AJ-D450 only)

This switches the video input signal.

DIGITAL: For selecting serial component digital video signal (SMPTE 259M-C) recording.*
ANALOG: For selecting analog video signal recording.
Select the analog video signal as follows to correspond with the input signal.
  Y PB PR: For recording an analog component video signal.
  CMPST: For recording an analog composite video signal.
  S-VIDEO: For recording a S-VIDEO signal.

* The optional AJ-YA750P serial interface board is necessary.

㉝ AUDIO INPUT switch (AJ-D450 only)

This switches the audio input signal.

DIGITAL: For selecting serial digital audio signal (SMPTE 272M) recording.*[1]
AES/EBU: For recording a digital audio signal.*[2]
ANALOG: For recording an analog audio signal.

*[1] Both the optional AJ-YA750P serial interface board and the optional AJ-YA655P digital audio interface board are necessary.
*[2] The optional AJ-YA655P digital audio interface board is necessary.

㉞ REMOTE/LOCAL switch

This switch is set when the unit is to be controlled from an external source using the REMOTE connector or RS-232C connector.

REMOTE: Set to this position when controlling the unit by a device connected using the 9-pin REMOTE connector or RS-232C connector.
LOCAL: Set to this position when controlling the unit using the controls on its own operation panel.

㉚ SET button

When this is pressed, the data which has been set on the setup menu is entered. After data entry, the setup mode is exited and the original operating mode is restored.

㉛ DIAG button

When this is pressed, VTR information is displayed. When it is pressed again, the original display is restored.

There are two types of VTR information: "HOURS METER" information and "WARNING" information. Swithcing between these types is enabled by pressing the cursor buttons (◀, ▶).

Indicated on the "HOUR METER" screen are the power-on time, drum rotation time, tape travel time, loading count, etc.

Indicated on the "WARNING" screen are the warnings.

㉜ VIDEO INPUT switch (AJ-D450 only)

This switches the video input signal.

DIGITAL: For selecting serial component digital video signal (EBC Tech. 3267-E) recording.*

ANALOG: For selecting analogue video signal recording.

Select the analogue video signal as follows to correspond with the input signal.

- **Y PB PR:** For recording an analogue component video signal.
- **CMPST:** For recording an analogue composite video signal.
- **S-VIDEO:** For recording a S-VIDEO signal.

* The optional AJ-YA750P serial interface board is necessary.

㉝ AUDIO INPUT switch (AJ-D450 only)

This switches the audio input signal.

DIGITAL: For selecting serial digital audio signal (EBU Tech. 3267-E) recording.*[1]

AES/EBU: For recording a digital audio signal.*[2]

ANALOG: For recording an analogue audio signal.

*[1] Both the optional AJ-YA750P serial interface board and the optional AJ-YA655P digital audio interface board are necessary.

*[2] The optional AJ-YA655P digital audio interface board is necessary.

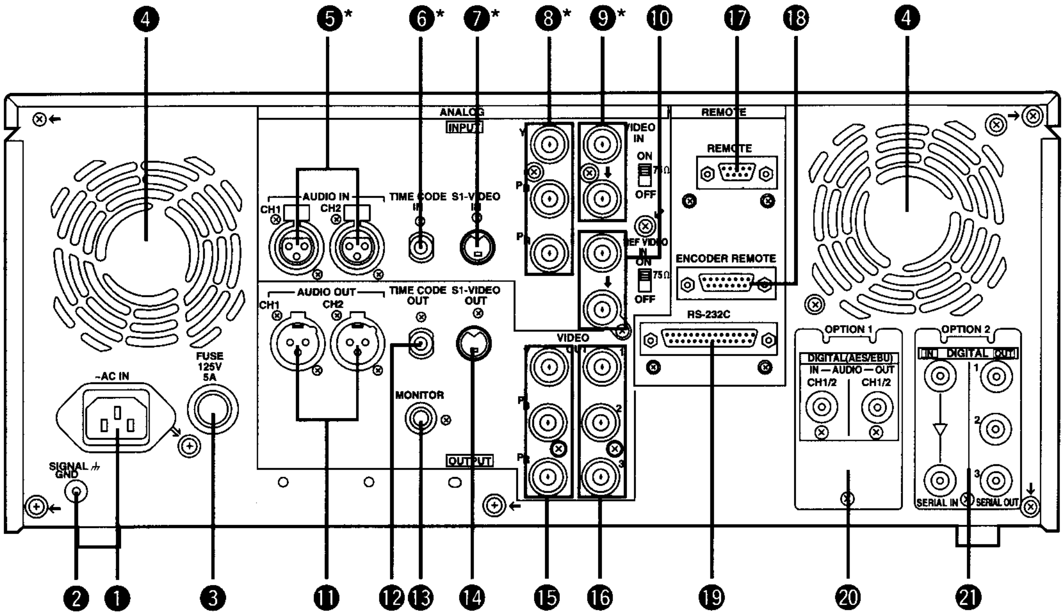
㉞ REMOTE/LOCAL switch

This switch is set when the unit is to be controlled from an external source using the REMOTE connector or RS-232C connector.

REMOTE: Set to this position when controlling the unit by a device connected using the 9-pin REMOTE connector or RS-232C connector.

LOCAL: Set to this position when controlling the unit using the controls on its own operation panel.

Connector area



4
5*
6*
7*
8*
9*
10
17
18
4
ANALOG
INPUT
REMOTE
AUDIO IN
CH1
CH2
TIME CODE IN
S1-VIDEO IN
Y
PB
PR
VIDEO IN
ON
75Ω
OFF
REF VIDEO IN
ON
75Ω
OFF
REMOTE
ENCODER REMOTE
RS-232C
AUDIO OUT
CH1
CH2
TIME CODE OUT
S1-VIDEO OUT
FUSE 125V 5A
~AC IN
SIGNAL GND
MONITOR
OUTPUT
VIDEO OUT
Y
PB
PR
1
2
3
OPTION 1
DIGITAL(AES/EBU)
IN — AUDIO — OUT
CH1/2
CH1/2
OPTION 2
IN DIGITAL OUT
1
2
3
SERIAL IN
SERIAL OUT
2
1
3
11
12
13
14
15
16
19
20
21

*** Applicable only to AJ-D450.**

<Connector area>

❶ **AC IN connector**
This is for connecting the unit to the power outlet using the power cord provided.

❷ **SIGNAL GND terminal**
This terminal is connected to the signa unit which is connected to the unit in order to reduce noise. It is not connected to ground for safety purposes.

❸ **Fuse holder**
This contains a fuse.

❹ **Fan motor**
This is for cooling the unit.
The error code is displayed on the counter when trouble has caused the fan motor to stop. If the unit is still operated in the warning status, the temperature inside the deck will rise, and when it exceeds the safety temperature, all the unit's operations will be shut down.

❺ **ANALOG AUDIO IN connectors***
These are the analog audio input connectors.

❻ **TIME CODE IN connector***
This is the connector for recording the external time code on the tape.

❼ **S1-VIDEO IN connector***
This is the S-VIDEO input connector.

❽ **ANALOG COMPONENT VIDEO IN connector***
The analog component video signal is supplied to this connector.

❾ **ANALOG COMPOSITE VIDEO IN connectors and 75Ω termination switch***
The analog composite video signal is supplied to these two connectors which are connected in a loop-through configuration. When the termination is required, set the switch to ON.

❿ **REF VIDEO IN connectors and 75Ω termination switch**
These are the input connectors for the reference video signals. When the termination is required, set the switch to ON.

⓫ **ANALOG AUDIO OUT connectors**
The analog audio signals are output from these connectors.

⓬ **TIME CODE OUT connector**
The playback time code is output from this connector during playback.
During recording, the time code generated by the internal time code generator is output.

⓭ **MONITOR OUT connector**
The playback signals from the CUE track or PCM audio signal CH1/CH2 are output from this connector.

* **Applicable only to AJ-D450.**

<Connector area>

⑭ S1-VIDEO OUT connector
This is the S-VIDEO output connector.

⑮ ANALOG COMPONENT VIDEO OUT connector
The analog component video signal is output from this connector.

⑯ ANALOG COMPOSITE VIDEO OUT connectors
The analog composite video signals are output from these connectors.
The video signal with signals superimposed on it can be output from the VIDEO OUT3 connector.
The superimpose function can be set ON or OFF on the setup menu No. 006 (SUPER).

⑰ REMOTE connector
The unit can be controlled from an external source by connecting an external controller.

⑱ ENCODER REMOTE connector
The external encoder/controller is hooked up to this connector when the video output signal and other settings are to be adjusted from an external source.

⑲ RS-232C connector

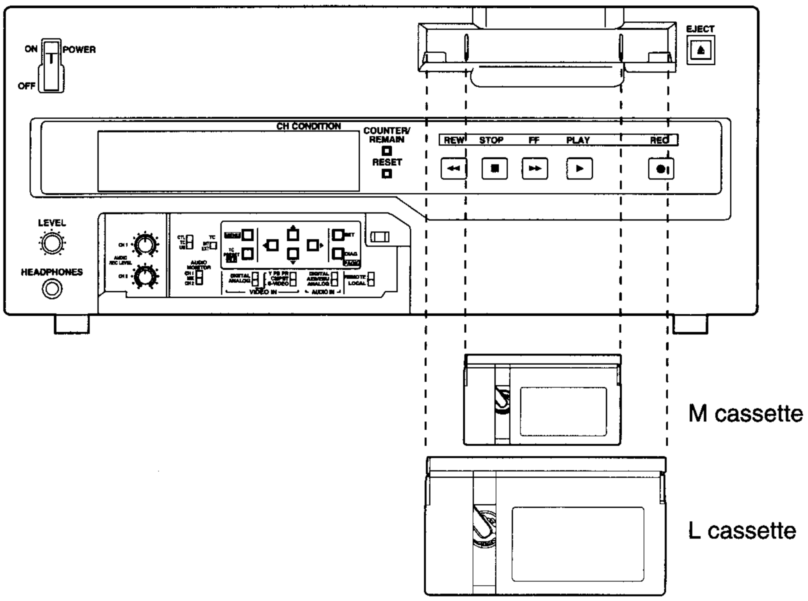
⑳ DIGITAL AUDIO IN/OUT connector (optional AJ-YA655P required.)
This I/O connector is for digital audio signals which comply with the AES/EBU standard.
<Note>
Does not input with AJ-D440.

㉑ SERIAL DIGITAL COMPONENT AUDIO/VIDEO IN/OUT connector (optional AJ-YA750P interface board required)
This I/O connector is for digital component audio and video signals which comply with the SMPTE 259M-C/272M standard.
The optional AJ-YA655P is required for digital audio signal output on the AJ-YA750P board.
<Note>
Does not input with AJ-D440.

Tapes

Type	Description
Consumer cassette (S cassette)	Tape designed exclusively for the camcorders used by consumers in general. Only playback is possible using the optional cassette adaptor (AJ-CS750P). However, please note that long-play cassette tapes (80-minute standard/120-minute LP mode) cannot be used. **Use of Panasonic consumer DV cassette tapes is recommended.** Note that inserting a cassette tape without using the cassette adaptor can damage the unit.
M cassette	Recording/playback tape with a maximum capacity of 66 minutes. (AJ-P12MP, AJ-P24MP, AJ-P33MP, AJ-P46MP, AJ-P66MP)
L cassette	Recording/playback tape with a maximum capacity of 184 minutes. (AJ-P34LP, AJ-P66LP, AJ-P94LP, AJ-P126LP, AJ-5P92LP)

Align the cassette with the center of the insertion slot and push it in gently. The cassette tape is loaded automatically.



<Note>

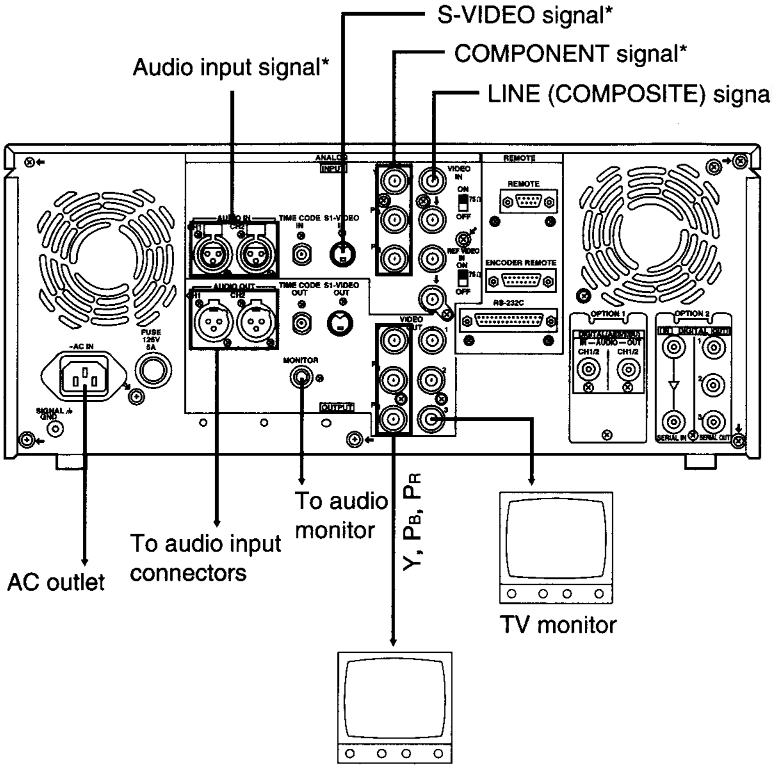
For AJ-5P92LP cassette tape, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

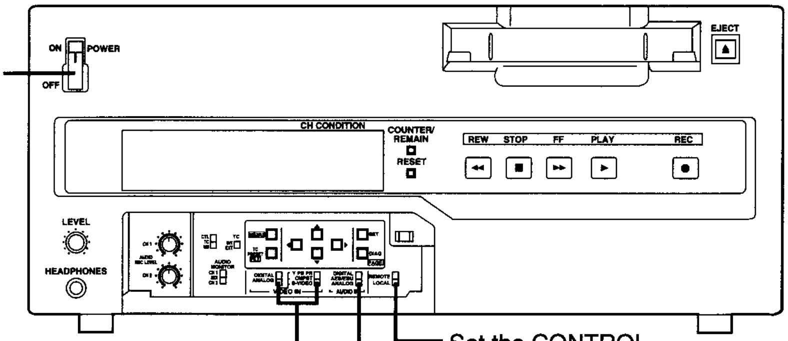
<Cautions when playing back consumer DV tapes and DVCAM tapes>

- Consumer DV tapes and DVCAM tapes can be used for playback only.
- Consumer DV tapes which have been recorded in the LP mode cannot be played back.
- When materials which have been recorded on consumer DV tapes or DVCAM tapes are to be edited, record them onto a DVCPRO tape or tape of any other broadcasting VTR for use.
- Recordings cannot be made on consumer DV tapes and DVCAM tapes: this means that all functions related to recording, REC operation, TAPE/EE switching and other such operations are prohibited.
- The maximum transport speed for consumer DV tapes and DVCAM tapes is 32 times the normal tape speed.
- The maximum time for the STILL TIMER when consumer DV tapes or DVCAM tapes are used is set to 10 seconds, and the total STEP FWD time when the machine has been left standing in the STILL status is set to 1 minute.
- Slow-motion playback of consumer DV tapes and DVCAM tapes is not possible.
- In order to protect your tapes, it is recommended that repeated cue-up in the same location on a consumer DV tape or DVCAM tape be avoided as far as possible.
- Finally, check out the cautionary items for setup menu item No. 108 “FORMAT SEL”.

When recording/playback using 1 unit

Set the CONTROL switch on the front panel to LOCAL.


S-VIDEO signal*
COMPONENT signal*
Audio input signal*
LINE (COMPOSITE) signal*
To audio monitor
Y, PB, PR
To audio input connectors
To AC outlet
TV monitor
Y, PB, PR/
RGB TV monitor


POWER
ON
OFF
EJECT
CH CONDITION
COUNTER/REMAIN
RESET
REW
STOP
FF
PLAY
REC
LEVEL
HEADPHONES

Set the POWER switch to ON.

Set the CONTROL switch to LOCAL.

Set the VIDEO IN switch to the following positon:

- "DIGITAL" for serial component digital video signal input.
- Set the VIDEO IN to ANALOG and select as following for the analog input:
  - "Y PB PR" for analog component video signal input.
  - "CMPST" for analog composite video signal input.
  - "S-VIDEO" for S-VIDEO signal input.

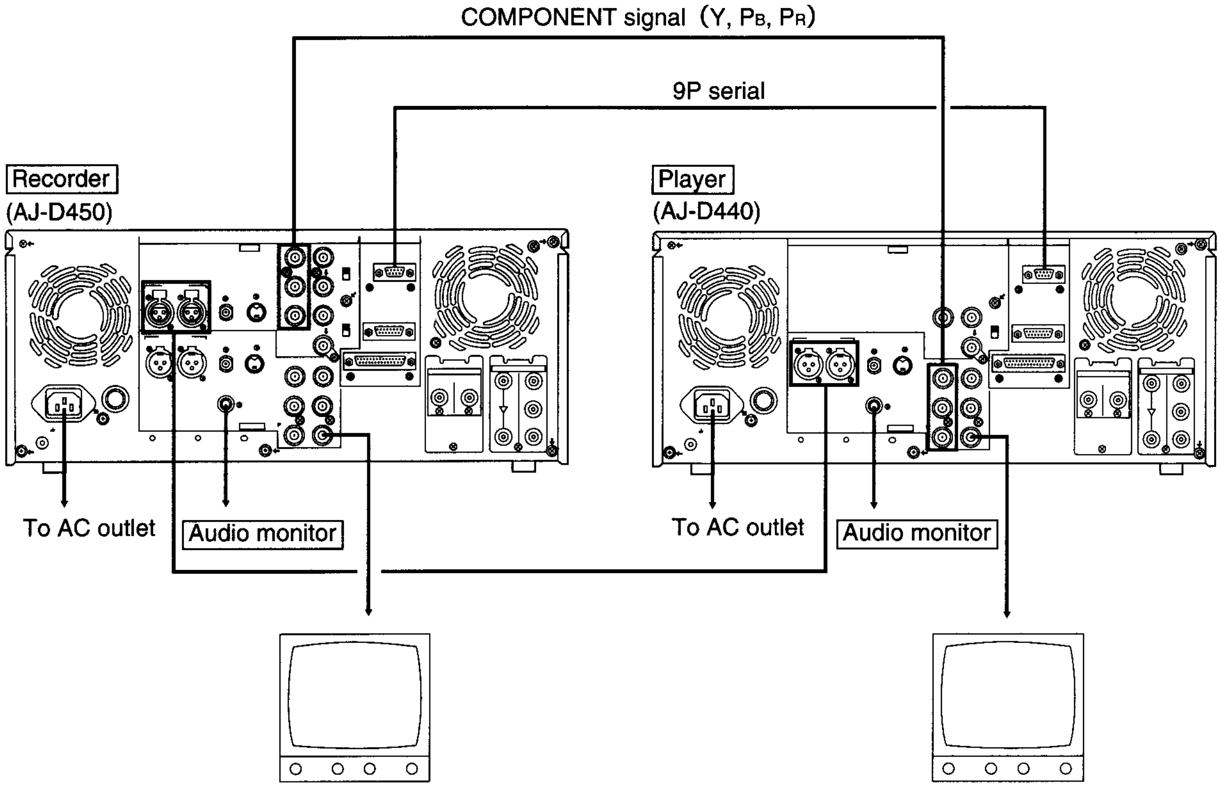
Set the AUDIO IN switch to the following positon:

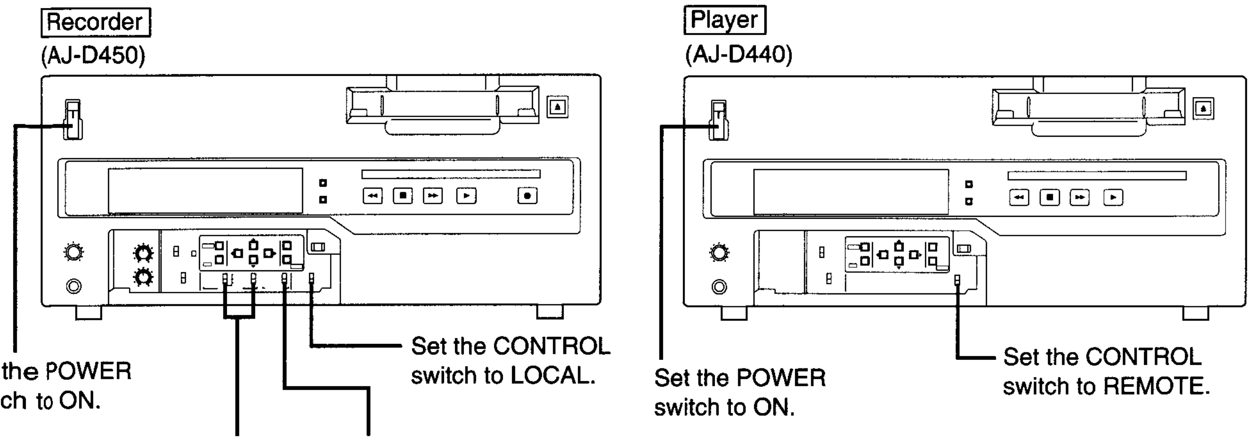
- "DIGITAL" for serial component digital audio signal input.
- "AES/EBU" for digital audio signal input.
- "ANALOG" for analog audio signal input.*

*** Applicable only to AJ-D450.**

When recording, playback & editing with 2 units (deck to deck)

The CONTROL switch on the recorder must be set to the LOCAL position, and the CONTROL switch on the player must be set to the REMOTE position.


COMPONENT signal (Y, PB, PR)
9P serial
Recorder
(AJ-D450)
Player
(AJ-D440)
To AC outlet
Audio monitor
To AC outlet
Audio monitor


Recorder
(AJ-D450)
Player
(AJ-D440)

Set the POWER switch to ON.

Set the CONTROL switch to LOCAL.

Set the POWER switch to ON.

Set the CONTROL switch to REMOTE.

Set the VIDEO IN switch to the following positon:

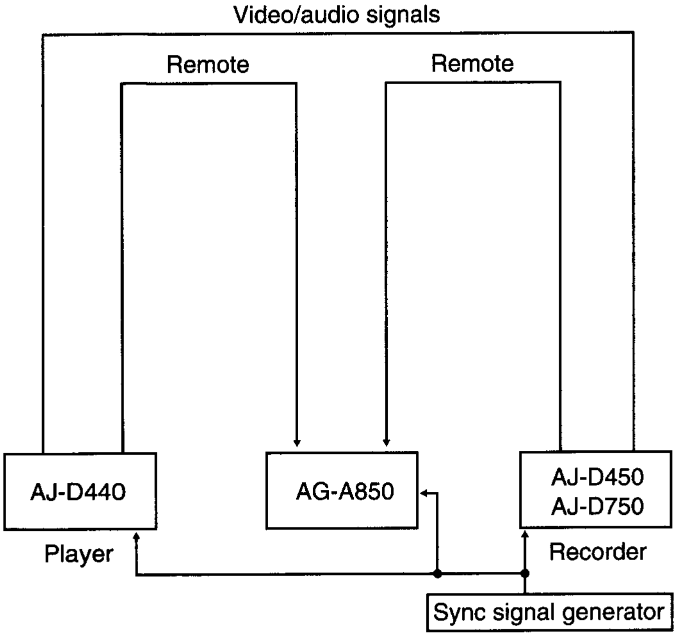
- "SERIAL I/F" for serial component digital video signal input.*
- "Y PB PR" for analog component video signal input.
- "CMPST" for analog composite video signal input.

Set the AUDIO IN switch to the following positon:

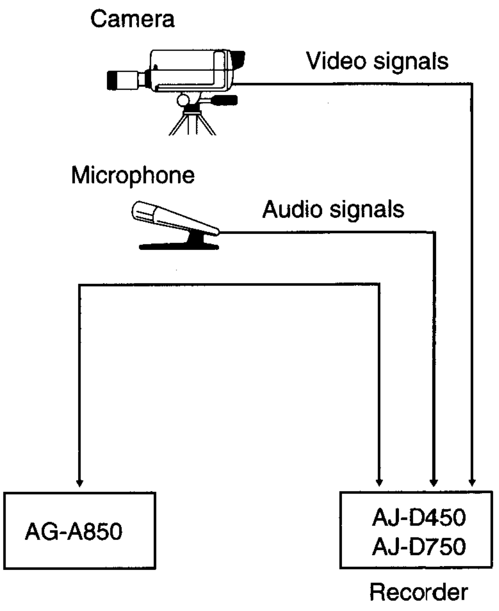
- "SERIAL I/F" for serial component digital audio signal input.
- "AES/EBU" for digital audio signal input.
- "ANALOG" for analog audio signal input.

When using an editing controller

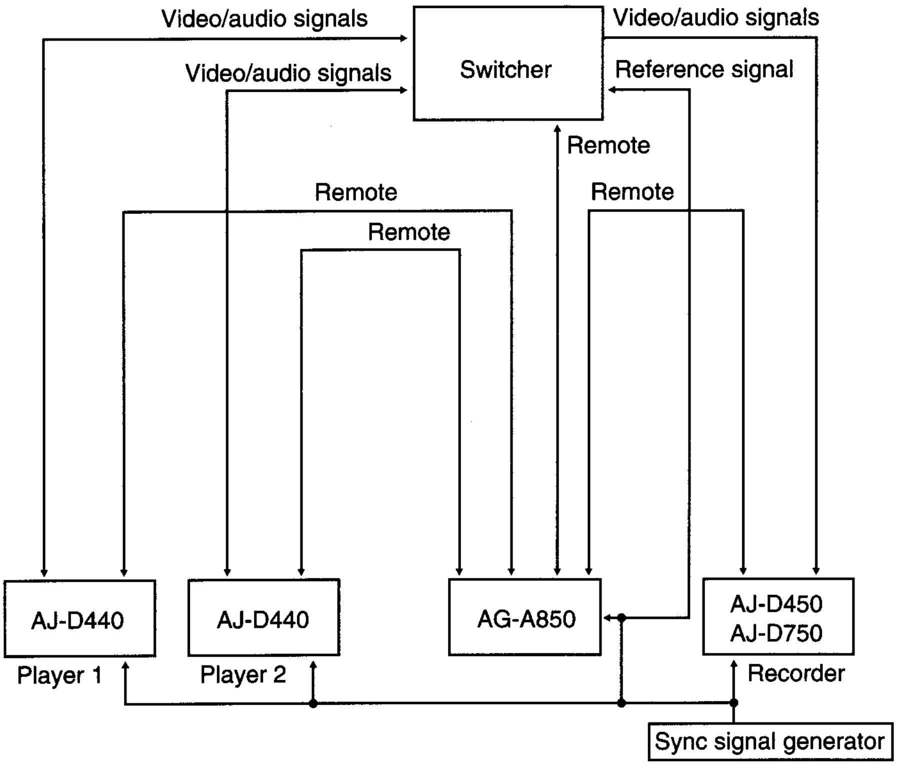
Basic system


Video/audio signals
Remote
Remote
AJ-D440
AG-A850
AJ-D450
AJ-D750
Player
Recorder
Sync signal generator

Camera/external input editing


Camera
Video signals
Microphone
Audio signals
AG-A850
AJ-D450
AJ-D750
Recorder

System using two players (AB roll editing)

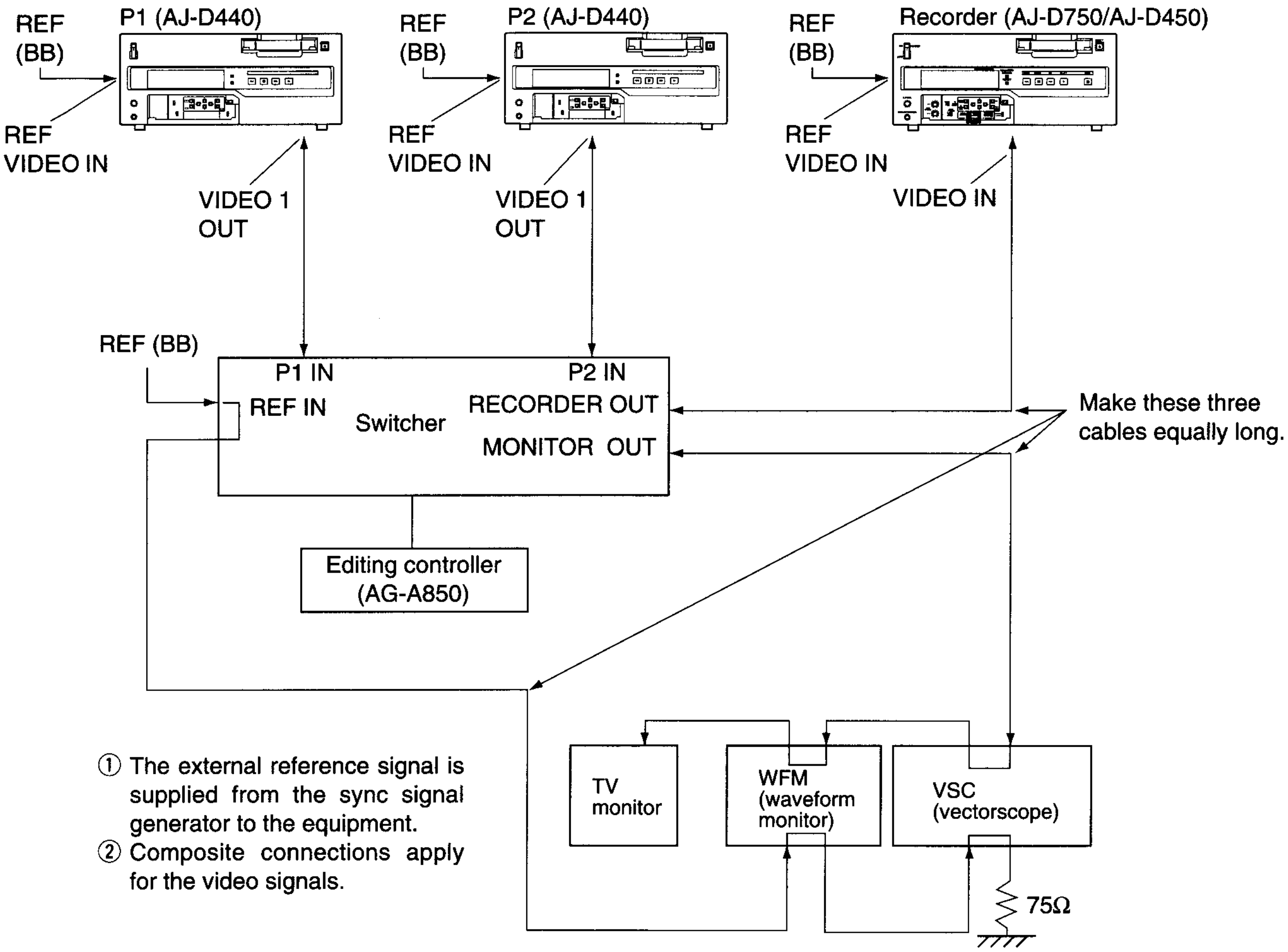

Video/audio signals
Video/audio signals
Switcher
Video/audio signals
Reference signal
Remote
Remote
Remote
Remote
AJ-D440
AJ-D440
AG-A850
AJ-D450
AJ-D750
Player 1
Player 2
Recorder
Sync signal generator

For further details, refer to the Operating Instructions of the AG-A850 editing controller (optional accessory).

Internal encoder adjustments

In order to ensure error-free and accurate editing during AB roll editing (a method of editing using two source VTRs) using an editor, the ENCODER OUT controls must be adjusted after the system has been connected. (These controls must be re-adjusted each time the connecting cables are replaced or the connections are changed.)

Connect the equipment as shown in the figure below.


REF (BB)
P1 (AJ-D440)
REF VIDEO IN
VIDEO 1 OUT
REF (BB)
P2 (AJ-D440)
REF VIDEO IN
VIDEO 1 OUT
REF (BB)
Recorder (AJ-D750/AJ-D450)
REF VIDEO IN
VIDEO IN
REF (BB)
P1 IN
P2 IN
REF IN
Switcher
RECORDER OUT
MONITOR OUT
Make these three cables equally long.
Editing controller (AG-A850)
TV monitor
WFM (waveform monitor)
VSC (vectorscope)
75Ω

① The external reference signal is supplied from the sync signal generator to the equipment.
② Composite connections apply for the video signals.

If a waveform monitor and vectorscope are not available, correct any color shifting while actually monitoring the picture on the TV monitor.

1 Check the connections. (see previous page.)

2 Select [OFF] on ENCODER SEL at the set up menu. (See page 30.)
Select [ON] to operate the internal encoder externally.

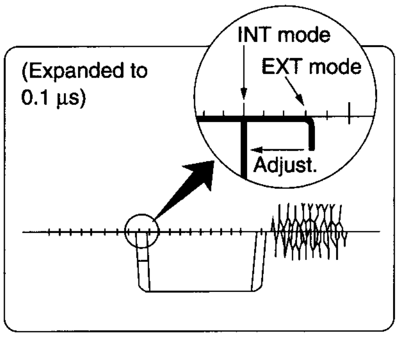
3 Adjust the SYSTEM PHASE.

3-1 On the P1 VTR, play back a cassette tape on which standard color bar signals have been recorded.

3-2 Adjust P1 VTR SYS PHASE.
Adjust the controls to the following with the waveform monitor (WFM).

1) Expand WFM 0.1 µs on the INT mode.
2) Check the H SYNC position.
3) In this status, select EXT mode for the WFM.
4) In EXT mode, adjust the SYSTEM PHASE to H, SC COARSE, SC FINE, in this order, at the set up menu to set H SYNC to its previous position.

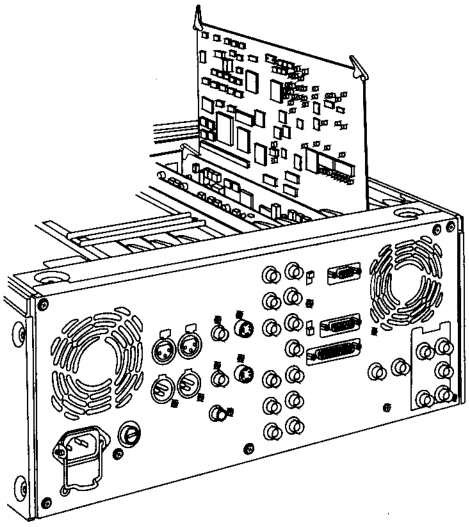
■Waveform on waveform monitor



(Observe the SYNC fall.)

4 Adjust the connected P2 VTR in the same way.

Printed circuit board



Printed circuit board	Abbr. name	Full name	Function	Factory setting
F8 board ADDA-CUE*	SW1	Audio Input Impedance SW	This sets the CH1 audio input impedance. HIGH/600Ω	HIGH
	SW61	Audio Input Impedance SW	This sets the CH2 audio input impedance. HIGH/600Ω	HIGH
F4 board	SW400	Component PB/PR Output level selector	This sets the component PB/PR output level when connecting with the editor. MII : MII level BETA : ß-CAM level	BETA

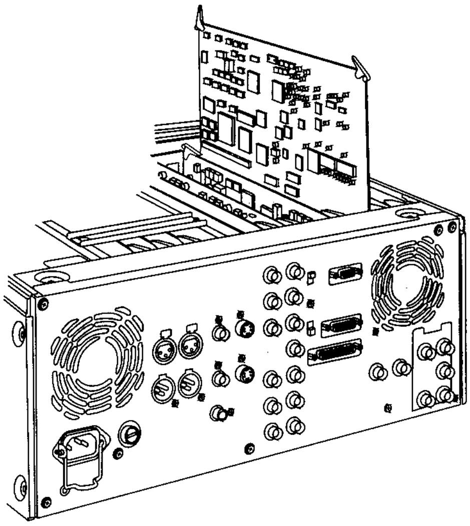
<Note>

Component PB/PR input levels are selected at No. 600 in the setup menu.*

CAUTION:
TO REDUCE THE RISK OF FIRE OF SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL.

*** Applicable only to AJ-D450.**

Printed circuit board



Printed circuit board	Abbr. name	Full name	Function	Factory setting
F8 board ADDA-CUE	SW1	Audio Input Impedance SW	This sets the CH1 audio input impedance. HIGH/600Ω	HIGH
	SW61	Audio Input Impedance SW	This sets the CH2 audio input impedance. HIGH/600Ω	HIGH

CAUTION:
TO REDUCE THE RISK OF FIRE OF SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL.

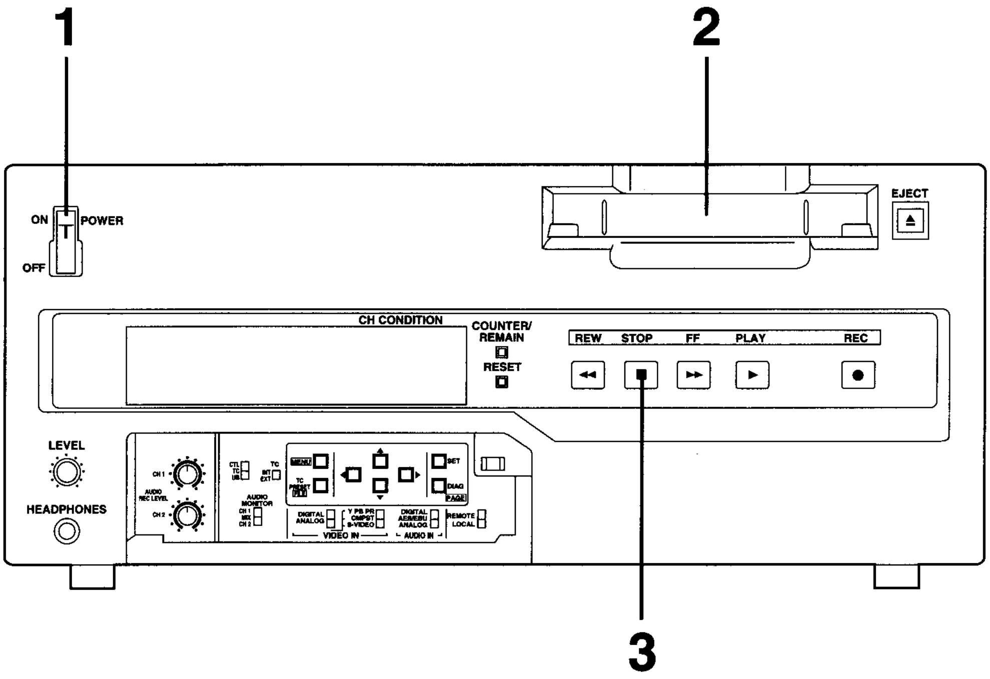
Switching on the power/inserting the cassette

Before starting to operate the unit, check whether the equipment has been connected properly.

1 Turn on the power.
Check that the error indicator is not displayed on the counter.

2 Insert the cassette tape.
Insert the tape at its proper position without force. (See page 14.)

3 Check that the STOP lamp is on.
When the tape is inserted, the drum rotates automatically, the tape is loaded and the unit goes into the stop mode.

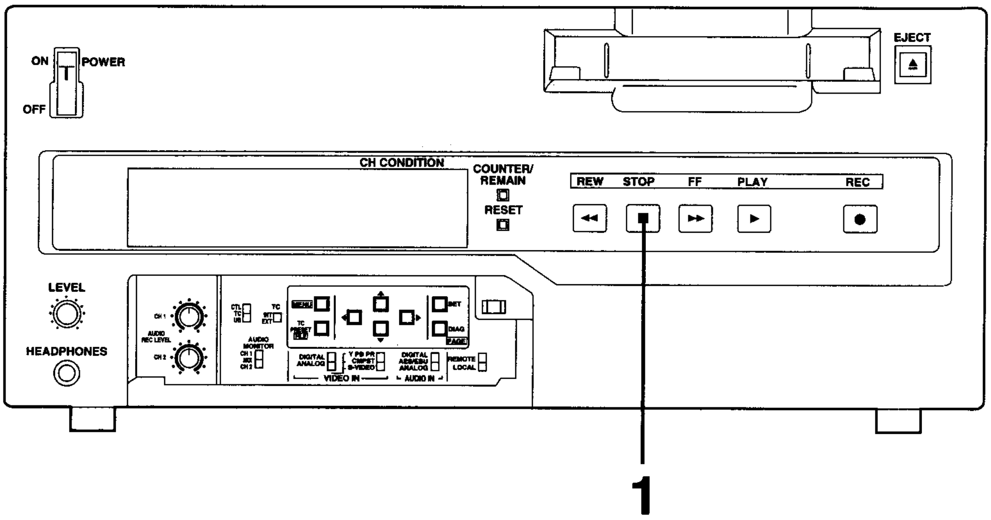

1
2
3
ON
POWER
OFF
EJECT
CH CONDITION
COUNTER/
REMAIN
RESET
REW
STOP
FF
PLAY
REC
LEVEL
HEADPHONES
VIDEO IN
AUDIO IN

STOP mode

1 When the STOP button is pressed, the unit goes into the stop mode. The STOP lamp lights and the tape stops traveling.

- In order to protect the tape, the unit goes into the standby OFF mode after the time set by setup menu No. 400 (STILL TIMER) has elapsed. When the STOP, REW, FF or PLAY button is pressed, the unit will go into the appropriate mode.

Still Timer Setting
In order to protect the tape and VTR helical heads, it is recommended that the Still Timer be set for automatic tape protection mode in 30 seconds or under.
Page 37 indicates the settings for menu item 400-Still Timer set. Still Timer settings 4 and below will best protect the tape.


ON
POWER
OFF
EJECT
CH CONDITION
COUNTER/
REMAIN
RESET
REW
STOP
FF
PLAY
REC
LEVEL
HEADPHONES
1

Recording (AJ-D450 only)

1 Set the accidental erasure prevention tab on the cassette tape to the “recording” position and insert the tape.

2 Press the STOP button to place the unit in the stop mode.

3 Check that the REC INHIBIT lamp is off.

4 Select the video and audio input signals and adjust their levels.

4-1 Selecting video/audio input signals

1 Connect the signals to be recorded.
2 Select the input signals using the INPUT SELECT switches on the front panel.

4-2 Adjusting the audio level

Adjust the audio input signal levels of the analog audio CH1/CH2 signals. When set at the center position, audio signals will be recorded at the proper level.

5 Press the PLAY button while holding down the REC button. The REC and PLAY lamps light, and recording commences.

6 To end the recording, press the STOP button.
Recording is ended, and the unit goes into the stop mode.

<Notes>

- Check that the SERVO lamp is lighted during recording. If it flashes or if it is off, the images played back will be disturbed.
- The sound and pictures to be recorded are offset from the playback pictures by 5 frames and recorded. When, for instance, recording sound at a particular timing while the playback pictures are monitored, the sound to be edited will be recorded at a position which is offset from the playback pictures by 5 frames.

Playback

1. Insert the cassette tape, and place the unit in the stop mode.
2. Press the PLAY button.
   Regular playback is now commenced.
3. To end playback, press the STOP button.
   The VTR now goes into the stop mode.

<Note>
Check that the SERVO lamp is lighted during playback. If it flashes or if it is off, the images played back will be disturbed.

Setup (default settings)

The unit's major settings are performed by making selections on menus.
The setting menus appear on the TV monitor when the TV monitor and VIDEO OUT 3 connector in the unit's connector area are hooked up.

Changing the settings

1 Press the MENU button.
The setup menu appears on the TV monitor and setup menu No. appears on the counter display. (If the setup has already been performed, the screen showing the changes made last will appear.)

2 Press the cursor buttons (▲, ▼) and select the item to be set.
The cursor (*) on the menu screen moves and the item No. on the display flashes.

- When the ▼ button is pressed, the item No. is incremented for 001 → 002 → 003 → 004 → and so on; when the ▲ button is pressed, the item No. is decremented.

3 Press the cursor buttons (◀, ▶) at the position where the change is to be made.
The menu screen and display setting No. now flashes.
When the ▶ button is pressed, the setting No. is incremented; when the ◀ button is pressed , it is decremented.

4 Repeat steps 2 and 3 to change other items.

5 Press the SET button.
The changes are now stored in the memory.

- To return the items to the settings established before the changes were made, press the MENU button without pressing the SET button.

To return the setup settings to the factory (initial) settings, press the RESET button while the menu is displayed.

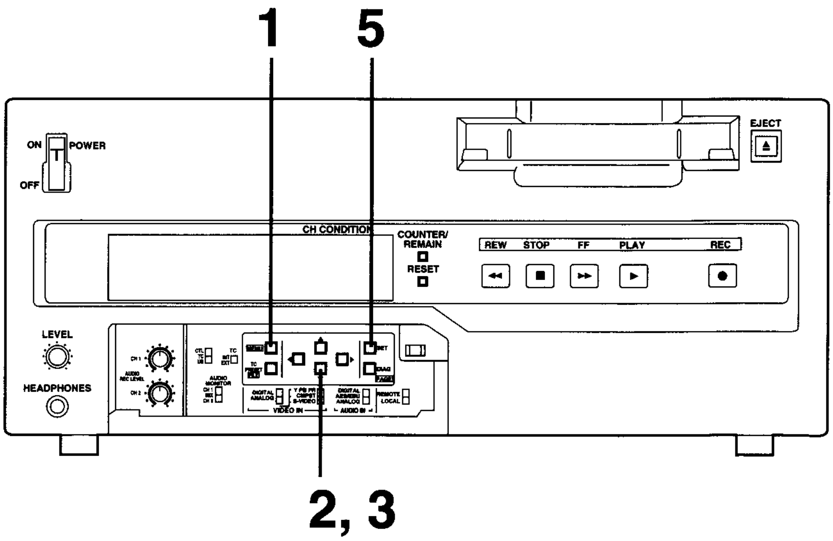
The following message is displayed.

```
SETUP-MENU INIT SET
YES<PLAY>/NO<STOP>
```

When the PLAY button is pressed, the factory settings are restored.

<Notes>

- When the RESET button is pressed to return to the factory settings, the factory settings are restored only for the user file currently being used and other user files are not affected.
- The changed SYSTEM menu contents are stored in the memory even if the MENU button is pressed.



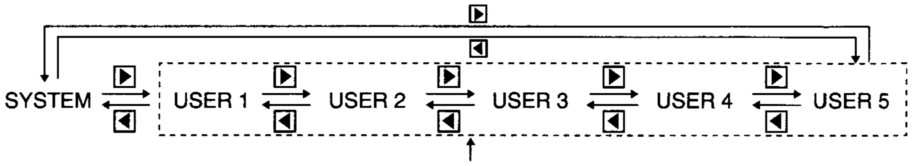
Setup (setting) menus

This unit can store up to 5 user files (user 1 to user 5) containing different menu settings, and these files can be selected and used.

Changing the file

1 Press the MENU button.

2 Hold down the FILE button and press the cursor button ▶ to switch to the next user file.
Hold down the FILE button and press the cursor button ◀ to switch to the previous user file.



USER FILE

Each user file contains the following items.

- BASIC
- OPERATION
- INTERFACE
- EDIT
- TAPE PROTECT
- TIME CODE
- VIDEO
- AUDIO
- MENU

3 Repeat the operation in step 2 to select the user file to be used and press the SET button. The user file is changed and stored in the memory.

<Note>

SYSTEM menu items are not included in user files 1 to 5.
Therefore, after selecting the user file, switch to the SYSTEM file and set the SYSTEM menu items.

Lock mode can be set to protect the settings in the system files and user files (USER2 – USER5). Settings can no longer be changed when this mode is set.
To set and release the lock mode for the system files and user files use setup item No. 30 (MENU LOCK) and setup menu item No. A03 (MENU LOCK), respectively.

Setting and releasing the lock mode.

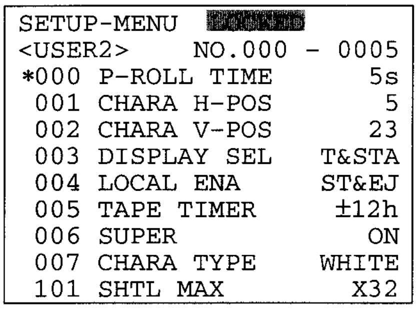
1. Press the MENU button.

2. While holding down the FILE button, press the ◀ or ▶ button, and select the file for which the lock mode is to be set or released.

3. Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to setup item No. 30 (MENU LOCK) or setup menu item No. A03 (MENU LOCK) for the system or user file.

4. Press the ◀ or ▶ button, and select lock mode setting or release.
To set the lock: Select the 0001 (ON) setting.
To release the lock: Select the 0000 (OFF) setting.

   When the lock has been set, "LOCKED" flashes on the menu screen. In addition, the counter display stops flashing and lights.

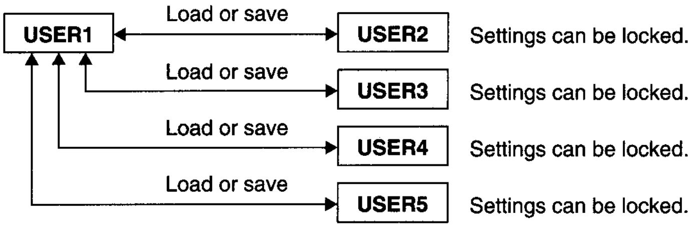


```
SETUP-MENU  LOCKED
<USER2>    NO.000 - 0005
*000 P-ROLL TIME     5s
 001 CHARA H-POS      5
 002 CHARA V-POS     23
 003 DISPLAY SEL  T&STA
 004 LOCAL ENA    ST&EJ
 005 TAPE TIMER    ±12h
 006 SUPER           ON
 007 CHARA TYPE   WHITE
 101 SHTL MAX       X32
```

5. Press the SET button. The setting is now stored in the memory.

<Notes>
- The lock mode cannot be set for the USER1 file settings.
- Even if the RESET button is pressed, the files which has been set to the lock mode cannot be reset to the factory settings.

The contents of the USER2 – USER5 files can be copied (loaded) into the USER1 file. In addition, the contents of the USER1 file can be copied (saved) to the USER2 – USER5 files.


USER1
Load or save
USER2
Settings can be locked.
Load or save
USER3
Settings can be locked.
Load or save
USER4
Settings can be locked.
Load or save
USER5
Settings can be locked.

Loading a user file

1. Press the MENU button.

2. While holding down the FILE button, press the ◀ or ▶ button, and select USER1.

3. Press the ▲ or ▼ button and move the cursor (*) on the menu screen to setup item No. A00 (LOAD).

```
SETUP-MENU  MENU
<USER1>     NO.A00 - 0000
 725 CUE SLOW       STEP
*A00 LOAD          USER2
 A01 SAVE          USER2
 A02 P.ON LOAD       OFF
 END
```

4. Press the ◀ or ▶ button and select the user file whose contents are to be loaded into USER1.

5. Press the SET button. The following messages appear on the menu screen and counter display.

Menu screen

```
SETUP-MENU LOAD

 USER█ → USER1 OK?
  YES<PLAY>/NO<STOP>
```

Counter display

```
L U█ -U1
```

The user file number selected in step 4 is displayed in the shaded area.

6. Press the PLAY button. The settings of the user file selected in step 4 are loaded, and the USER1 menu display appears. When the STOP button is pressed, the USER1 menu display appears while the settings remain unchanged.

7. Press the ▲ or ▼ button and move the cursor (*) on the menu screen to any setup item except No. A00 (LOAD) and No. A01 (SAVE).

8. Press the SET button. The USER1 settings are now stored in the memory.
If the USER1 settings are not going to be stored in the memory, do not press the SET button but press the MENU button.

Saving a user file

1. Press the MENU button.
2. While holding down the FILE button, press the ◀ or ▶ button, and select USER1.
3. Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to setup item No. A01 (SAVE).

```
SETUP-MENU  MENU
<USER1>     NO.A00 - 0000
 723 DV PB ATT        OFF
 A00 LOAD           USER2
*A01 SAVE           USER2
 A02 P.ON LOAD        OFF
 END
```

4. Press the ◀ or ▶ button and select the user file into which the USER1 contents are to be saved. User files which have been set to the lock mode are not displayed. When all the user files have been set to the lock mode, the "LOCKED" display appears and the contents cannot be saved.
5. Press the SET button. The following messages appear on the menu screen and counter display.

Menu screen

```
 SETUP-MENU SAVE

  USER1 → USER▮ OK?
   YES<PLAY>/NO<STOP>
```

Counter display

```
      S U1 -U▮
```

The user file number selected in step 4 is displayed in the shaded area.

6. Press the PLAY button. The contents of the USER1 file are saved in the user file which was selected in step 4 and stored in the memory. When the STOP button is pressed, the USER1 menu display appears while the settings remain unchanged.
7. Press the ▲ or ▼ button and move the cursor (∗) on the menu screen to any setup item except No. A00 (LOAD) and No. A01 (SAVE).
8. Press the SET button. The USER1 settings are now stored in the memory.
   If the USER1 settings are not going to be stored in the memory, do not press the SET button but press the MENU button.

Automatic loading of user file when the power is turned on

When the user file to be loaded is selected in advance using setup menu item No. A02 (P.ON LOAD), it can be automatically loaded into USER1 when the power is turned on.

Setup (setting) menus

SYSTEM menu

<SYSTEM>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
00	SYS SC COAR.	0000 0001 0002 0003	0 90 180 270	System phase rough adjustment: 90° units **<Note>** If setting operation is performed, the setting value does not return to factory (default) setting.
01	SYS SC FINE	0000 : 0127 : 0255	−127 : 0 : 127	System phase fine adjustment: Total variable range: ±90° or more −: advanced +: delayed **<Note>** If setting operation is performed, the setting value does not return to factory (default) setting.
02	SYS H	0000 : 0112 : 0224	−112 : 0 : 112	System phase adjustment: ±2 μsec (SC cycle phase) −: Advanced +: Delayed **<Note>** If setting operation is performed, the setting value does not return to factory (default) setting.
03	ENCODER SEL	0000 0001	OFF ON	This selects whether the ENCODER connector functions. 0: Does not functions. 1: Functions.
10	AV PHASE	0000 : 0128 : 0255	−128 : 0 : 127	This adjusts the audio output phase with respect to the video output: 20.8 μs steps −: The audio output phase is advaced with respect to the video output. +: The audio output phase is delayed with respect to the video output.
30	MENU LOCK	0000 0001	OFF ON	This selects whether the system file lock mode is to be engaged or released. 0: The lock is released (file data can be changed). 1: The lock is engaged (file data cannot be changed).

The underline on the setting item denotes the initial setting.

USER menu

<BASIC>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
000	P-ROLL TIME	0000 : 0005 : 0015	0S : 5S : 15S	This sets the preroll time which can be set from 0 to 15 seconds in 1-second increments. **<Note>** In the case of AJ-D450, the unit will not operate if the preroll time is set to 0 seconds when the unit is set to automatic editing (PREVIEW, AUTO EDIT COMMAND) from an external controller.

The underline on the setting item denotes the initial setting.

USER menu

<BASIC> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
001	CHARA H-POS	0000 : 0005 : 0012	0 : 5 : 12	This sets the position of the characters on the horizontal plane for the time code and other super displays output to the VIDEO OUT 3 connector. **<Notes>** 1. When setting this item, the DISPLAY SEL status is output to VIDEO OUT 3 even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Also, CHARA TYPE is output to VIDEO OUT 3 according to the status set in the menu. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting value is changed so that the characters are automatically displayed in a position on the screen.
002	CHARA V-POS	0000 : 0018 : 0022	0 : 18 : 22	This sets the position of the characters on the vertical plane for the time code and other super displays output to the VIDEO OUT 3 connector. **<Notes>** 1. When setting this item, the DISPLAY SEL status is output to VIDEO OUT 3 even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Also, CHARA TYPE is output to VIDEO OUT 3 according to the status set in the menu. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting value is changed so that the characters are automatically displayed in a position on the screen.
003	DISPLAY SEL	0000 0001 0002	TIME T&STA T&S&M	This selects what information is to be provided by the time code and other super displays output to the VIDEO OUT 3 connector. 0: Time only. 1: Time and status. 2: Time, status and mode. **<Notes>** • When T&S&M has been selected, one of the following displays appears on the third line of the superimposed display. In the DVCPRO mode: DVCPRO MODE In the DV mode: DV MODE In the DVCAM mode: DVCAM MODE • An error message is displayed when an warning or error occurs.
004	LOCAL ENA	0000 0001 0002	DIS ST&EJ ENA	This selects the buttons which can be operated on the front panel when the REMOTE/LOCAL switch has been set to REMOTE. 0: No buttons can be operated. 1: Only the STOP and EJECT buttons can be operated. 2: All buttons can be operated.
005	TAPE TIMER	0000 0001	±12h 24h	This selects the 12 or 24 hour display for the CTL counter. 0: 12 hour display 1: 24 hour display
006	SUPER	0000 0001	OFF ON	This selects whether the time code and other super display which are output to the VIDEO OUT 3 connector is to shown. 0: Not shown. 1: Shown.
007	CHARA TYPE	0000 0001	WHITE W/OUT	This selects the display type for the super display output to the VIDEO OUT 3 connector as well as for displays such as the setting menu, etc. 0: White characters against a black background. 1: White characters with a black border.

The underline on the setting item denotes the initial setting.

USER menu

<BASIC> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
001	CHARA H-POS	0000 : 0005 : 0012	0 : 5 : 12	This sets the position of the characters on the horizontal plane for the time code and other super displays output to the VIDEO OUT 3 connector. **<Notes>** 1. When setting this item, the DISPLAY SEL status is output to VIDEO OUT 3 even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Also, CHARA TYPE is output to VIDEO OUT 3 according to the status set in the menu. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting value is changed so that the characters are automatically displayed in a position on the screen.
002	CHARA V-POS	0000 : 0023 : 0028	0 : 23 : 28	This sets the position of the characters on the vertical plane for the time code and other super displays output to the VIDEO OUT 3 connector. **<Notes>** 1. When setting this item, the DISPLAY SEL status is output to VIDEO OUT 3 even if SUPER OFF has been set. However, when the menu is exited, operation complies with the SUPER OFF/ON setting. Also, CHARA TYPE is output to VIDEO OUT 3 according to the status set in the menu. 2. When the DISPLAY SEL setting causes characters to extend beyond the edges of the screen, the setting value is changed so that the characters are automatically displayed in a position on the screen.
003	DISPLAY SEL	0000 0001 0002	TIME T&STA T&S&M	This selects what information is to be provided by the time code and other super displays output to the VIDEO OUT 3 connector. 0: Time only. 1: Time and status. 2: Time, status and mode. **<Notes>** • When T&S&M has been selected, one of the following displays appears on the third line of the superimposed display. In the DVCPRO mode: DVCPRO MODE In the DV mode: DV MODE In the DVCAM mode: DVCAM MODE • An error message is displayed when an warning or error occurs.
004	LOCAL ENA	0000 0001 0002	DIS ST&EJ ENA	This selects the buttons which can be operated on the front panel when the REMOTE/LOCAL switch has been set to REMOTE. 0: No buttons can be operated. 1: Only the STOP and EJECT buttons can be operated. 2: All buttons can be operated.
005	TAPE TIMER	0000 0001	±12h 24h	This selects the 12 or 24 hour display for the CTL counter. 0: 12 hour display 1: 24 hour display
006	SUPER	0000 0001	OFF ON	This selects whether the time code and other super display which are output to the VIDEO OUT 3 connector is to shown. 0: Not shown. 1: Shown.
007	CHARA TYPE	0000 0001	WHITE W/OUT	This selects the display type for the super display output to the VIDEO OUT 3 connector as well as for displays such as the setting menu, etc. 0: White characters against a black background. 1: White characters with a black border.

The underline on the setting item denotes the initial setting.

Setup menus

USER menu

<OPERATION>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
101	SHTL MAX	0000 0001 0002	×16 ×32 ×60	This sets the maximum speed for shuttle operations. 0: 16× normal speed 1: 32× normal speed 2: 60× normal speed **<Note>** During DV or DVCAM format, the maximum speed is 32× normal speed even when 60× is selected.
102	FF. REW MAX	0000 0001 0002	×32 ×60 ×100	This sets the maximum speed for FF and REW operations. 0: 32× normal speed 1: 60× normal speed 2: 100× normal speed **<Note>** During DV or DVCAM format, the maximum speed is 32× normal speed regardless of this setting.
103	AUDIO MUTE	0000 0001	OFF ON	This sets the status until the audio signal is output when operation switches from the stop or search modes to the play mode. 0: The time until the audio is output is shortened. 1: The audio is output after the status stabilizes. **<Note>** When set to 0 (OFF), the sound in the initially output part is incomplete. Therefore, this setting is not recommended for broadcasts.
104	REF ALARM	0000 0001	OFF ON	This selects whether to warn the operator when the REF.VIDEO signal has not been connected. 0: Warning is not given. 1: Warning is given by the flashing STOP lamp.
106	PLAY DELAY	0000 : 0015	0 : 15	This set the play delay time in frame increments.
107	CAP. LOCK	0000 0001	2F 4F	This selects the capstan lock mode. 0: 2F mode 1: 4F mode
108	FORMAT SEL	0000 0001 0002	DVCPRO DV DVCAM	These settings are for selecting the format when an L cassette or S cassette is used. 0: L cassette → DVCPRO mode S cassette → DV mode 1: L cassette/S cassette → DV mode 2: L cassette/S cassette → DVCAM mode **<Notes>** Bear in mind that, in addition to problems with playback, the trouble described below may occur when a tape which does not match the selected format is inserted. 1. If a DV or DVCAM tape is inserted when the DVCPRO mode setting has been selected, the recording operation will be conducted but no guarantee is given for the resulting performance, etc. Conversely, recording is not possible if a DVCPRO cassette tape is inserted when the DV or DVCAM mode setting has been selected. 2. The REMAIN display fails to appear properly. 3. The slow-down position near the tape start or end is not located accurately. 4. When a tape which does not match the selected format is inserted, no guarantee is given for the resulting performance, etc.

The underline on the setting item denotes the initial setting.

USER menu

<OPERATION>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
101	SHTL MAX	0000 0001 0002	×16 ×32 ×60	This sets the maximum speed for shuttle operations. 0: 16× normal speed 1: 32× normal speed 2: 60× normal speed **<Note>** During DV or DVCAM format, the maximum speed is 32× normal speed even when 60× is selected.
102	FF. REW MAX	0000 0001 0002	×32 ×60 ×100	This sets the maximum speed for FF and REW operations. 0: 32× normal speed 1: 60× normal speed 2: 100× normal speed **<Note>** During DV or DVCAM format, the maximum speed is 32× normal speed regardless of this setting.
103	AUDIO MUTE	0000 0001	OFF ON	This sets the status until the audio signal is output when operation switches from the stop or search modes to the play mode. 0: The time until the audio is output is shortened. 1: The audio is output after the status stabilizes. **<Note>** When set to 0 (OFF), the sound in the initially output part is incomplete. Therefore, this setting is not recommended for broadcasts.
104	REF ALARM	0000 0001	OFF ON	This selects whether to warn the operator when the REF. VIDEO signal has not been connected. 0: Warning is not given. 1: Warning is given by the flashing STOP lamp.
106	PLAY DELAY	0000 ⋮ 0015	0 ⋮ 15	This set the play delay time in frame increments.
107	CAP. LOCK	0000 0001 0002	2F 4F 8F	This selects the capstan lock mode. 0: 2F mode 1: 4F mode 2: 8F mode
108	FORMAT SEL	0000 0001 0002	DVCPRO DV DVCAM	These settings are for selecting the format when an L cassette or S cassette is used. 0: L cassette → DVCPRO mode S cassette → DV mode 1: L cassette/S cassette → DV mode 2: L cassette/S cassette → DVCAM mode **<Notes>** Bear in mind that, in addition to problems with playback, the trouble described below may occur when a tape which does not match the selected format is inserted. 1. If a DV or DVCAM tape is inserted when the DVCPRO mode setting has been selected, the recording operation will be conducted but no guarantee is given for the resulting performance, etc. Conversely, recording is not possible if a DVCPRO cassette tape is inserted when the DV or DVCAM mode setting has been selected. 2. The REMAIN display fails to appear properly. 3. The slow-down position near the tape start or end is not located accurately. 4. When a tape which does not match the selected format is inserted, no guarantee is given for the resulting performance, etc.

The underline on the setting item denotes the initial setting.

<OPERATION> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
109*	EJECT EE SEL	0000 0001	EE BLACK	This selects whether EE mode or BLACK is to be used during EJECT status. 0: EE mode 1: Video blackens, audio mutes.
110*	F/R EE SEL	0000 0001	EE TAPE	This selects whether EE mode or playback mode is to be used during FF/REW operations. 0: EE mode 1: Playback mode
111*	STOP EE SEL	0000 0001	EE TAPE	This selects whether EE mode or playback mode is to be used during stop mode. 0: EE mode 1: Playback mode **<Note>** The STAND-BY OFF mode complies with the above selection. When TAPE is selected, however, the video becomes grey.
112	AUTO REW	0000 0001	OFF ON	This selects whether to rewind the tape automatically to the tape start when the tape end is detected. 0: The tape stops at the tape end. 1: The tape is rewound to the tape start.
113	MEMORY STOP	0000 0001	OFF ON	This selects whether the VTR is to stop automatically when the counter value reaches "0" during a fast forwarding or rewinding operation in the CTL mode. 0: The VTR does not stop. 1: The VTR stops automatically. **<Notes>** 1. The stop mode concerned is either the stop or the still-picture (SHTL STILL) mode depending on the setup menu No. 313 (AFTER CUE-UP) setting. 2. When both the AUTO REW function and MEMORY function have been selected at the same time, the AUTO REW function takes precedence.
114*	REC INHIBIT	0000 0001	OFF ON	This selects whether to allow (enable) or prohibit (disable) the recording of signals on the cassette tape. 0: Signals can be recorded on the cassette tape when the cassette's accidental erasure prevention mechanism is set to the recording enable position. 1: Recording on the cassette tape is prohibited. In this case, the REC INH lamp on the front panel lights.
115	STOP RESPNS	0000 0001	NORMAL QUICK	This selects the response when the mode is changed to STOP/STILL while the tape is traveling. 0: Priority is given to the output picture. 1: Priority is given to the response. **<Notes>** • At the 1 (QUICK) setting, the picture may not be as clear in the STOP/STILL mode as it would be at the 0 (NORMAL) setting. • CTL may shift by ±2 frames.

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<INTERFACE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
201	9P SEL	0000 0001	OFF ON	This selects whether the 9P connector functions when the REMOTE/LOCAL switch has been set to REMOTE. 0: Do not function 1: Function
202	ID SEL	0000 0001	OTHER DVCPRO	This selects the ID information which is returned to the controller. 0: 20 25H 1: DVCPRO's, own ID is returned (F0 33H).
204	RS232C SEL	0000 0001	OFF ON	These settings are for selecting whether the RS-232C connector is to function when the REMOTE/LOCAL switch is set to REMOTE. 0: Connector does not function. 1: Connector functions.
205	BAUD RATE	0000 0001 0002 0003 0004 0005	300 600 1200 2400 4800 9600	These settings are for selecting the RS-232C communication speed (baud rate).
206	DATA LENGTH	0000 0001	7 8	These settings are for selecting the RS-232C data length. (Unit: bit)
207	STOP BIT	0000 0001	1 2	These settings are for selecting the RS-232C stop bit length. (Unit: bit)
208	PARITY	0000 0001 0002	NON ODD EVEN	These settings are for selecting the none, odd or even for the RS-232C parity bit. 0: Parity bit is not used. 1: An odd number of bits is used for the parity system. 2: An even number of bits is used for the parity system.
209	RETURN ACK	0000 0001	OFF ON	These settings are for selecting whether the ACK code is to be returned when a command is received from RS-232C. 0: ACK code is not returned. 1: ACK code is returned.

The underline on the setting item denotes the initial setting.

<INTERFACE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
201	9P SEL	0000 0001	OFF ON	This selects whether the 9P connector functions when the REMOTE/LOCAL switch has been set to REMOTE. 0: Do not function 1: Function
202	ID SEL	0000 0001	OTHER DVCPRO	This selects the ID information which is returned to the controller. 0: 21 25H 1: DVCPRO's, own ID is returned (F1 33H).
204	RS232C SEL	0000 0001	OFF ON	These settings are for selecting whether the RS-232C connector is to function when the REMOTE/LOCAL switch is set to REMOTE. 0: Connector does not function. 1: Connector functions.
205	BAUD RATE	0000 0001 0002 0003 0004 0005	300 600 1200 2400 4800 9600	These settings are for selecting the RS-232C communication speed (baud rate).
206	DATA LENGTH	0000 0001	7 8	These settings are for selecting the RS-232C data length. (Unit: bit)
207	STOP BIT	0000 0001	1 2	These settings are for selecting the RS-232C stop bit length. (Unit: bit)
208	PARITY	0000 0001 0002	NON ODD EVEN	These settings are for selecting the none, odd or even for the RS-232C parity bit. 0: Parity bit is not used. 1: An odd number of bits is used for the parity system. 2: An even number of bits is used for the parity system.
209	RETURN ACK	0000 0001	OFF ON	These settings are for selecting whether the ACK code is to be returned when a command is received from RS-232C. 0: ACK code is not returned. 1: ACK code is returned.

The underline on the setting item denotes the initial setting.

USER menu

<EDIT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
303*	STD/ NON-STD	0000 0001 0002	AUTO STD N-STD	This selects STD or NON-STD in accordance with the composite input signal. 0: Standard/non-standard signals are automatically identified and processed. 1: Standard signals are processed. (Forced STD) 2: Non-standard signals are processed. (Forced NON-STD)
304*	SERVO REF	0000 0001	AUTO EXT	This selects the video signal processing. 0: Servo is synchronized with the input signal during recording and editing, or with the REF signal during playback. 1: Servo is synchronized at all times with the REF signal.
305*	EDIT RPLCE1	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function. This selects the channel concerned when the VTR CH1 edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the controller. 0: Not set. 1: Compliance with analog CH1 edit preset. 2: Compliance with analog CH2 edit preset. 3: Compliance with either analog CH1 ot CH2 edit preset.
306*	EDIT RPLCE2	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function. This selects the channel concerned when the VTR CH2 edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the controller. 0: Not set. 1: Compliance with analog CH1 edit preset. 2: Compliance with analog CH2 edit preset. 3: Compliance with either analog CH1 ot CH2 edit preset.
307*	EDIT RPLCEC	0000 0001 0002 0003	N-DEF CH1 CH2 CH1+2	This sets the channel assignments for the controller's analog audio preset when editing the digital audio of the VTR using a controller which does not have a digital audio edit preset control function. This selects the channel concerned when the VTR CUE edit preset is set in compliance with the ON or OFF presetting for the analog audio signals designated by the editor or controller. 0: Not set. 1: Compliance with analog CH1 edit preset. 2: Compliance with analog CH2 edit preset. 3: Compliance with either analog CH1 ot CH2 edit preset.
309*	AUD EDIT IN	0000 0001	CUT FADE	This selects the connection method for the digital audio edit IN point. 0: Cut processing 1: V Fade processing
310*	AUD EDIT OUT	0000 0001	CUT FADE	This selects the connection method for the digital audio edit OUT point. 0: Cut processing 1: V Fade processing

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

Setup menus

USER menu

<EDIT> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
313	AFTER CUE-UP	0000 0001	STOP STILL	This selects the mode after cue-up operation is complete. 0: STOP mode 1: SHTL STILL mode
315*	AUD MEM UNIT	0000 0001 0002 0003	OFF MODE1 MODE2 MODE3	This selects the connection with the AJ-YA752 audio memory unit. 0: When the audio memory unit is not going to be used 1: When a voice-over operation is to be conducted 2: When audio cross channel editing is to be performed for CH2 3: When audio cross channel editing is to be performed for CH1 **<Notes>** • The RS-232C interface will function only when this menu item is set to 0 (OFF). • Refer to the Instruction Manual of the AJ-YA752 audio memory unit for details on how the modes are used.
316	VAR STEP	0000 0001	FINE COARSE	This selects the VAR speed during remote control operations. 0: The tape is played at the fine step speed. 1: The tape is played at a speed at which noise-less playback is possible in the –0.43× to +1× (–0.5× to +1×) range. **<Notes>** • The tape will be played at the speed given in parentheses in the DV/DVCAM mode. • At the 1(COARSE) setting, the phase cannot be synchronized from the editing controller.
317	VAR FWD MAX	0000 0001 0002 0003 0004 0005 0006 0007 0008	+4.1 +1.85 +1 +0.75 +0.5 +0.3 +0.2 +0.1 +0.03	This sets the maximum VAR FWD speed. 0: +4.1× (+3.1×) speed 1: +1.85× (+1.85×) speed 2: +1× (+1×) speed 3: +0.75× (+0.5×) speed 4: +0.5× (+0.5×) speed 5: +0.3× (+0.3×) speed 6: +0.2× (+0.2×) speed 7: +0.1× (+0.1×) speed 8: +0.03× (+0.03×) speed **<Notes>** • The tape will be played at the speed given in parentheses in the DV/DVCAM mode. • At any speed setting other than 0 (+4.1×), the phase cannot be synchronized from the editing controller.
318	VAR REV MAX	0000 0001 0002 0003 0004 0005 0006 0007	–4.1 –1.85 –1 –0.43 –0.3 –0.2 –0.1 –0.03	This sets the maximum VAR REV speed. 0: –4.1× (–3.1×) speed 1: –1.85× (–1.85×) speed 2: –1× (–1×) speed 3: –0.43× (–0.5×) speed 4: –0.3× (–0.3×) speed 5: –0.2× (–0.2×) speed 6: –0.1× (–0.1×) speed 7: –0.03× (–0.03×) speed **<Note>** The tape will be played at the speed given in parentheses in the DV/DVCAM mode.
319	JOG STEP	0000 0001	FINE COARSE	This selects the JOG speed during remote control operations. 0: The tape is played at the fine step speed. 1: The tape is played at a speed at which noise-less playback is possible in the –0.43× to +1× (–0.5× to +1×) range. **<Notes>** • The tape will be played at the speed given in parentheses in the DV/DVCAM mode. • At the 1(COARSE) setting, the phase cannot be synchronized from an editing controller which synchronizes the phase using the JOG command.

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<EDIT> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
320	JOG FWD MAX	0000 0001 0002	+4.1 +1.85 +1	This sets the maximum JOG FWD speed. 0: +4.1× (+3.1×) speed 1: +1.85× (+1.85×) speed 2: +1× (+1×) speed **<Notes>** • The tape will be played at the speed given in parentheses in the DV/DVCAM mode. • At any speed setting other than 0 (+4.1×), the phase cannot be synchronized from an editing controller which synchronizes the phase using the JOG command.
321	JOG REV MAX	0000 0001 0002 0003	–4.1 –1.85 –1 –0.43	This sets the maximum JOG REV speed. 0: –4.1× (–3.1×) speed 1: –1.85× (–1.85×) speed 2: –1× (–1×) speed 3: –0.43× (–0.5×) speed **<Note>** The tape will be played at the speed given in parentheses in the DV/DVCAM mode.

The underline on the setting item denotes the initial setting.

USER menu

<TAPE PROTECT>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
400	STILL TIMER	0000 0001 0002 0003 0004 0005 0006 0007 0008	0.5s 5s 10s 20s 30s 40s 50s 1min 2min	This selects the time to be taken until the unit goes into the tape protection mode when it is left standing in the stop mode. (Unit: s = second, min = minute) **<Note>** With the DV or DVCAM format, the maximum time which can be set is 10s even when a setting above 10s has been selected. The selection screen, however, will operate for up to 2 minutes.
401	SRC PROTECT	0000 0001	STEP HALF	This selects the operation during the tape protection mode when the unit is left standing in the still status in No. 400 protection mode. 0: STEP FWD. 1: HALF LOADING. **<Note>** When STEP FWD is selected, the unit automatically goes into the HALF LOADING mode when the total time for which the unit is left standing in the still status reaches 30 minutes (DVCPRO) or 1 minute (DV or DVCAM).
402	DRUM STDBY	0000 0001	OFF ON	This selects the drum operation in the STANDBY OFF mode. 0: The drum stops rotating. 1: The drum continues rotating.
403	STOP PROTECT	0000 0001	STEP HALF	This selects the operation in the tape protection mode when the unit has been left standing in the STOP mode. 0: STEP FWD 1: HALF LOADING **<Note>** When STEP FWD is selected, the unit is automatically transferred to the HALF LOADING mode when the total time during which it has been left standing in the STOP mode reaches 30 minutes (or 1 minute with a DV/DVCAM tape).

The underline on the setting item denotes the initial setting.

<Note>

In order to protect the tape and VTR helical heads, it is recommended that the Still Timer be set for automatic tape protection mode in 30 seconds or under.

Setup menus

USER menu

<TIME CODE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
500	VITC POS-1	0000	10L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-2 in 501 cannot be selected.)
		0001	11L	
		0002	12L	
		0003	13L	
		0004	14L	
		0005	15L	
		0006	16L	
		0007	17L	
		0008	18L	
		0009	19L	
		0010	20L	
501	VITC POS-2	0000	10L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-1 in 500 cannot be selected.)
		0001	11L	
		0002	12L	
		0003	13L	
		0004	14L	
		0005	15L	
		0006	16L	
		0007	17L	
		0008	18L	
		0009	19L	
		0010	20L	
502	VITC BLANK	0000	BLANK	This selects whether to output the VITC data to the positions selected by VITC POS-1 in 500 and VITC POS-2 in 501. 0: Data is not output. 1: Data is output.
		0001	THRU	
503*	TCG REGEN	0000	TC&UB	This selects the signal to be regenerated when the time code generator (TCG) in the REGEN mode. 0: Both the time code and user bit are regenerated. 1: Only the time code is regenerated. 2: Only the user bit is regenerated.
		0001	TC	
		0002	UB	
504*	REGEN MODE	0000	OFF	This selects whether values used in the internal time code generator are preset from the front panel or remote controller or synchronized with time code values read from the tape. 0: Values are preset from the front panel or remote controller. (PRESET) 1: Values are synchronized with time code values read from the tape. (REGEN) **<Note>** When "1" is selected, values selected at set up menu No. 503 (TCG REGEN) are regenerated.
		0001	ON	
505*	EXT TC SEL	0000	LTC	This selects the time code to be used when an external time code is to be used. 0: The LTC of the TIME CODE IN connector is used. 1: The video signal VITC is used.
		0001	VITC	
506*	BINARY GP	0000	000	This sets the usage status of the user bit of the time code generated by the TCG. 0: NOT SPECIFIED (character set not specified) 1: ISO CHARACTER (8 bits character set based on ISO646, ISO2022) 2: UNASSIGNED 1 (undefined) 3: UNASSIGNED 2 (undefined) 4: UNASSIGNED 3 (undefined) 5: PAGE/LINE 6: UNASSIGNED 4 (undefined) 7: UNASSIGNED 5 (undefined)
		0001	001	
		0002	010	
		0003	011	
		0004	100	
		0005	101	
		0006	110	
		0007	111	

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<TIME CODE>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
500	VITC POS-1	0000 : 0004 : 0014	7L : 11L : 21L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-2 in 501 cannot be selected.)
501	VITC POS-2	0000 : 0006 : 0014	7L : 13L : 21L	This sets the position where the VITC signal is to be inserted. (The same line as for VITC POS-1 in 500 cannot be selected.)
502	VITC BLANK	0000 0001	BLANK THRU	This selects whether to output the VITC data to the positions selected by VITC POS-1 in 500 and VITC POS-2 in 501. 0: Data is not output. 1: Data is output.
503*	TCG REGEN	0000 0001 0002	TC&UB TC UB	This selects the signal to be regenerated when the time code generator (TCG) in the REGEN mode. 0: Both the time code and user bit are regenerated. 1: Only the time code is regenerated. 2: Only the user bit is regenerated.
504*	REGEN MODE	0000 0001	OFF ON	This selects whether values used in the internal time code generator are preset from the front panel or remote controller or synchronized with time code values read from the tape. 0: Values are preset from the front panel or remote controller. (PRESET) 1: Values are synchronized with time code values read from the tape. (REGEN) **<Note>** When "1" is selected, values selected at set up menu No. 503 (TCG REGEN) are regenerated.
505*	EXT TC SEL	0000 0001	LTC VITC	This selects the time code to be used when an external time code is to be used. 0: The LTC of the TIME CODE IN connector is used. 1: The video signal VITC is used.
506*	BINARY GP	0000 0001 0002 0003 0004 0005 0006 0007	000 001 010 011 100 101 110 111	This sets the usage status of the user bit of the time code generated by the TCG. 0: NOT SPECIFIED (character set not specified) 1: ISO CHARACTER (8 bits character set based on ISO646, ISO2022) 2: UNASSIGNED 1 (undefined) 3: UNASSIGNED 2 (undefined) 4: UNASSIGNED 3 (undefined) 5: PAGE/LINE 6: UNASSIGNED 4 (undefined) 7: UNASSIGNED 5 (undefined)
507	PHASE CORR	0000 0001	OFF ON	This selects whether to control the phase correction of the LTC generated by the TCG. 0: Phase correction control is not performed. 1: Phase correction control is performed.
508*	TCG CF FLAG	0000 0001	OFF ON	This selects whether the CF flag of the TCG is to ON. 0: CF flag is OFF. 1: CF flag is ON.

The underline on the setting item denotes the initial setting.
* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<TIME CODE> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
507	PHASE CORR	0000 0001	OFF ON	This selects whether to control the phase correction of the LTC generated by the TCG. 0: Phase correction control is not performed. 1: Phase correction control is performed.
508*	TCG CF FLAG	0000 0001	OFF ON	This selects whether the CF flag of the TCG is to ON. 0: CF flag is OFF. 1: CF flag is ON.
509	DF MODE	0000 0001	DF NDF	This selects the DF/NDF mode for CTL and TCG. 0: Drop frame mode. 1: Non-drop frame mode. No. 509 is valid when the CONTROL is LOCAL or LOCAL ENA of item 004 to "ENA".
510*	RUN MODE	0000 0001	REC FREE	This selects the time code generator run mode. 0: Generator runs only during recording. 1: Generator runs during usual operation. **<Note>** Even if "0" is selected, the time code generator runs during usual operation when "1" is selected at the setting menu No. 504 (REGEN MODE).
511*	TC OUT REF	0000 0001	V OUT TC IN	This is used to switch the phase of the time code, which is output from the TIME CODE OUT connector, for the external LTC input when the TC INT/EXT switch is at the EXT position. (In EE mode only) 0: Time code is synchronized with output video signal. 1: Time code is synchronized with external time code input.

<VIDEO>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
600*	PB/PR IN LV	0000 0001	MⅡ B-CAM	This selects the component input signal level. 0: MⅡ level. 1: β cam level.
601*	INT BB SIG	0000 0001	OFF BB	This selects whether to generate the internal black burst signal. 0: Signal is not generated. 1: Signal is generated.
602*	INPUT C KILL	0000 0001	B/W AUTO	This selects color killer processing for the video input signals. 0: The signals are forcibly processed as B/W signals. 1: The signals are automatically processed.
603*	OUT VSYNC	0000 0001	N-VF VF	This selects whether to float the vertical sync position of the video output in order to align the video output phase with the input in the EE/record/edit modes. 0: Signals are not floated. 1: Signals are floated.
604	V-MUTE SEL	0000 0001	N-MUTE LOW_RF	This selects whether the video output signal is to be muted when the blank portion of the tape is detected during playback. 0: No muting (picture freezes). 1: Muting (picture turns grey).
605	CC (F1) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed capture signal in the first field. 0: Forced blanking performed. 1: Blanking not performed.

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<TIME CODE> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
510*	RUN MODE	0000 0001	REC FREE	This selects the time code generator run mode. 0: Generator runs only during recording. 1: Generator runs during usual operation. **<Note>** Even if "0" is selected, the time code generator runs during usual operation when "1" is selected at the setting menu No. 504 (REGEN MODE).
511*	TC OUT REF	0000 0001	V OUT TC_IN	This is used to switch the phase of the time code, which is output from the TIME CODE OUT connector, for the external LTC input when the TC INT/EXT switch is at the EXT position. (In EE mode only) 0: Time code is synchronized with output video signal. 1: Time code is synchronized with external time code input.

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

Setup menus

USER menu

<VIDEO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
606	CC (F2) BLANK	0000 0001	BLANK THRU	This selects ON or OFF for the closed capture signal in the second field. 0: Forced blanking performed. 1: Blanking not performed.
608	FREEZE SEL	0000 0001	FIELD FRAME	This selects the freeze mode for still pictures. 0: Field freeze 1: Frame freeze **<Note>** When frame freeze is selected, the frame freeze mode is established even during slow motion.
611	EDH	0000 0001	OFF ON	This selects whether to superimpose EDH onto the serial output signals. 0: EDH is not superimposed. 1: EDH is superimposed. • This item setting is valid when the optional serial interface board has been installed.
612	WIDE SELECT	0000 0001 0002	AUTO WIDE NORMAL	This selects the operation to be conducted in response to the WIDE information. 0: During recording, if the Y/C input signals contain WIDE information, the WIDE information is recorded on the tape. During playback, if WIDE information is on the tape, it is added to the Y/C output signals. 1: During recording, the WIDE information is recorded on the tape regardless of whether the Y/C input signals contain the WIDE information. During playback, the WIDE information is added to the Y/C output signals regardless of whether the WIDE information is on the tape. → Forced WIDE ON 2: During recording, the WIDE information is not recorded on the tape regardless of whether the Y/C input signals contain the WIDE information. During playback, the WIDE information is not added to the Y/C output signals regardless of whether the WIDE information is on the tape. → Forced WIDE OFF **<Note>** This item is effective during recording at the start of the recording and during playback at all times. Therefore, when its setting has been changed during recording, the MENU contents will be changed but no change will occur in the actual operation.
613	VIN SETUP	0000 0001	THRU CUT	This selects whether the composite signal is to be recorded with setup or without setup. 0: When recording signals with no setup. 1: When recording signals with 7.5% setup. **<Note>** When recording composite signals, be sure to double-check whether the signals are to be recorded with or without setup.
614	VOUT SETUP	0000 0001	THRU ADD	This selects the composite output signal. 0: The signal is output without setup. 1: Ths signal is output with 7.5% setup.

The underline on the setting item denotes the initial setting.

<VIDEO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
601*	INT BB SIG	0000 0001	OFF BB	This selects whether to generate the internal black burst signal. 0: Signal is not generated. 1: Signal is generated.
602*	INPUT C KILL	0000 0001	B/W AUTO	This selects colour killer processing for the video input signals. 0: The signals are forcibly processed as B/W signals. 1: The signals are automatically processed.
603*	OUT VSYNC	0000 0001	N-VF VF	This selects whether to float the vertical sync position of the video output in order to align the video output phase with the input in the EE/record/edit modes. 0: Signals are not floated. 1: Signals are floated.
604	V-MUTE SEL	0000 0001	N-MUTE LOW_RF	This selects whether the video output signal is to be muted when the blank portion of the tape is detected during playback. 0: No muting (picture freezes). 1: Muting (picture turns grey).
608	FREEZE SEL	0000 0001	FIELD FRAME	This selects the freeze mode for still pictures. 0: Field freeze 1: Frame freeze **<Note>** When frame freeze is selected, the frame freeze mode is established even during slow motion.
611	EDH	0000 0001	OFF ON	This selects whether to superimpose EDH onto the serial output signals. 0: EDH is not superimposed. 1: EDH is superimposed. • This item setting is valid when the optional serial interface board has been installed.
612	WIDE SELECT	0000 0001 0002	AUTO WIDE NORMAL	This selects the operation to be conducted in response to the WIDE information. 0: During recording, if the Y/C input signals contain WIDE information, the WIDE information is recorded on the tape. During playback, if WIDE information is on the tape, it is added to the Y/C output signals. 1: During recording, the WIDE information is recorded on the tape regardless of whether the Y/C input signals contain the WIDE information. During playback, the WIDE information is added to the Y/C output signals regardless of whether the WIDE information is on the tape. → Forced WIDE ON 2: During recording, the WIDE information is not recorded on the tape regardless of whether the Y/C input signals contain the WIDE information. During playback, the WIDE information is not added to the Y/C output signals regardless of whether the WIDE information is on the tape. → Forced WIDE OFF **<Note>** This item is effective during recording at the start of the recording and during playback at all times. Therefore, when its setting has been changed during recording, the MENU contents will be changed but no change will occur in the actual operation.

The underline on the setting item denotes the initial setting.
* The Setup menu can only be displayed for the model AJ-D450.

<AUDIO>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
700*	CH1 IN LV	0000 0001 0002 0003	4dB 0dB –20dB –60dB	This selects the audio input (CH1) reference level switching.
701*	CH2 IN LV	0000 0001 0002 0003	4dB 0dB –20dB –60dB	This selects the audio input (CH2) reference level switching.
703	CH1 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH1) reference level switching.
704	CH2 OUT LV	0000 0001 0002	4dB 0dB –20dB	This selects the audio output (CH2) reference level switching.
713	MONI CH SEL	0000 0001 0002 0003	AUTO 1 AUTO 2 AUTO 3 AUTO 4	This selects the monitor output. 0: In the tape speed range of –0.43× (–0.5×) to +1× normal speed, PCM AUDIO is output; at all other times, CUE is automatically output. 1: In the PLAY mode, PCM AUDIO is output; at all other times, CUE is automatically output. 2: In the PLAY mode, PCM AUDIO is output; in the tape speed range of –0.43× (–0.5×) to +1× normal speed, QUICK PCM AUDIO is output; at all other times, CUE is automatically output. 3: In the tape speed range of –0.2× to +0.2× normal speed, QUICK PCM AUDIO is output; in the tape speed ranges of –0.43× (–0.5×) to –0.2× and +0.2× to +1× (excluding –0.2× and +0.2×) normal speed, PCM AUDIO is output; at all other times, CUE is automatically output. **<Notes>** 1. The tape speed figures given above in parentheses apply when DV or DVCAM format tapes are used. 2. PCM AUDIO complies with the AUDIO MONITOR SELECT SW setting and is set to CH1, CH2 or MIX (CH1+CH2). 3. "QUICK PCM AUDIO" is a playback mode in which priority is given to aligning the video and audio phases during slowmotion playback. In this mode, the sound at 1× normal speed is played back one frame at a time each time the video frame is updated. (During normal PCM AUDIO slow-motion playback, the sound is stretched out so that it is played back after the pictures.)
714*	REC CH1	0000 0001 0002	CH1 CH2 CH1+2	This selects the input signal to be recorded on the audio CH1 track. 0: Audio input CH1 signal. 1: Audio input CH2 signal. 2: Mixed audio input CH1 and CH2 signal.
715*	REC CH2	0000 0001 0002	CH1 CH2 CH1+2	This selects the input signal to be recorded on the audio CH2 track. 0: Audio input CH1 signal. 1: Audio input CH2 signal. 2: Mixed audio input CH1 and CH2 signal.

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<AUDIO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
716	REC CUE	0000 0001 0002	CH1 CH2 CH1+2	This selects the input signal recorded in CUE. 0: The signal selected by SETUP-MENU No. 714 is recorded on CH1. 1: The signal selected by SETUP-MENU No. 715 is recorded on CH2. 2: The signal selected by SETUP-MENU No. 714 and No. 715 are mixed and recorded on CH1 and CH2.
718	DV OUTPUT	0000 0001 0002	ST1 ST2 ST1+2	This selects the AUDIO CH1 and CH2 output signals during DV or DVCAM format playback. 0: The CH1 track signals are output to CH1 and the CH2 track signals to CH2. (Only the sound during shooting is output.) 1: The CH3 track signals are output to CH1 and the CH4 track signals to CH2. (Only the audio dubbing sound is output.) 2: The mixed CH1 and CH3 track signals are output to CH1 and the mixed CH2 and CH4 track signals to CH2. (The sound during shooting and audio dubbing sound are output simultaneously.)
	<Note> This item setting is valid only when the tape recorded on the four channels of the DV or DVCAM format is played back.			
719	PB FADE	0000 0001 0002	AUTO CUT FADE	This selects the processing method for the audio edit points (IN point, OUT point) during playback. 0: According to the status during recording. (Setup menus No. 309, 310) 1: Forced CUT 2: Forced FADE
720	EMBEDDED AUD	0000 0001	OFF ON	This selects whether to superimpose the audio data onto the serial output. 0: Data is not superimposed. 1: Data is superimposed.
	<Note> This item is valid when both optional serial interface and optional digital audio interface boards have been installed.			
721	LINE CH SEL	0000 0001	PCM AUTO	This selects the audio output (LINE OUT). 0: PCM AUDIO or QUICK PCM AUDIO is output. 1: Whatever is selected by SETUP-MENU No. 713 (MONI CH SEL) output.
	<Note> The PCM AUDIO or QUICK PCM AUDIO output is not affected by the AUDIO MONITOR SELECT SW, and CH1 and CH2 are output independently.			
722*	INT SG	0000 0001	OFF ON	This selects whether the internal signal is to be used for the audio input signal. 0: The internal signal is not selected. 1: The internal signal is selected.
	<Note> The internal signal has a frequency of 1 kHz.			
723	DV PB ATT	0000 0001	OFF ON	This selects the audio output level for DV format playback. 0: The audio output level is not attenuated. 1: The audio output level is attenuated (reduced).
	<Notes> As indicated below, whether the setting takes effect or not depends on the size of the cassette tape used. 1. When an "L" size cassette is used The setting takes effect only when "DV" has been selected as the setting for setup menu No. 108 (FORMAT SEL). 2. When an "M" size cassette is used The setting does not take effect. 3. When an "S" size cassette is used The setting takes effect only when "DV" has been selected as the setting for setup menu No. 108 (FORMAT SEL).			

The underline on the setting item denotes the initial setting.

* The Setup menu can only be displayed for the model AJ-D450.

USER menu

<AUDIO> (continued)

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
725	CUE SLOW	0000 0001	STEP LINEAR	This selects the tape travel status (CUE track playback status) during SLOW playback. 0: Priority is given to the output picture, and tape travel is set to the step feed status. 1: Priority is given to CUE track playback, and the tape travel is set to the linear status.
	<Notes> When "1" (LINEAR) has been set: • It may not be possible to achieve as clear a picture as in the STEP mode. • The CTL counter may not operate properly.			

<MENU>

Item		Setting		Description
No.	Superimposed display	No.	Superimposed display	
A00	LOAD	0000 0001 0002 0003	USER2 USER3 USER4 USER5	This selects the user file whose contents will be loaded into USER1. 0: The USER2 file contents are loaded. 1: The USER3 file contents are loaded. 2: The USER4 file contents are loaded. 3: The USER5 file contents are loaded. **<Note>** When the SET button is pressed after loading, the setting will be stored in the memory. When the MENU button is pressed, the setting will not be changed.
A01	SAVE	0000 0001 0002 0003 0004	USER2 USER3 USER4 USER5 LOCKED	This selects the user file into which the USER1 settings will be saved. 0: The settings are saved in USER2. 1: The settings are saved in USER3. 2: The settings are saved in USER4. 3: The settings are saved in USER5. 4: This display appears when all the user files are in the change prohibit status. **<Notes>** • User files whose status have been set to change prohibit cannot be selected. • When all the user files are in the change prohibit status, the "LOCKED" display appears and the contents cannot be saved.
A02	P.ON LOAD	0000 0001 0002 0003 0004	OFF USER2 USER3 USER4 USER5	This loads the contents of the selected user file into USER1 and it starts operation with the USER1 settings when the power is turned on. 0: Operation is started with the settings of the previously set user file. 1: The contents of USER2 are loaded into USER1 and operation is started with the USER1 settings. 2: The contents of USER3 are loaded into USER1 and operation is started with the USER1 settings. 3: The contents of USER4 are loaded into USER1 and operation is started with the USER1 settings. 4: The contents of USER5 are loaded into USER1 and operation is started with the USER1 settings.
A03	MENU LOCK	0000 0001	OFF ON	This selects whether to set or release the user file (USER2 – USER5) lock mode. 0: The lock is released (changes can be made). 1: The lock is set (changes are prohibited). **<Note>** The lock cannot be set for USER1.

The underline on the setting item denotes the initial setting.

<Notes>

- No. A00 (LOAD), No. A01 (SAVE) and No. A02 (P.ON LOAD) are the menu items which can be set only for USER1. They are not displayed with the USER2 – USER5 files.
- No. A03 (MENU LOCK) is the menu item which can be set only for the USER2 – USER5 files. It is not displayed with USER1.

Time code/user bit

Time code

The time code is used when the time code signal generated by the time code generator (time code signal generator) is to be recorded on the tape, its values are to be read by the time code reader (time code signal reader), and the absolute position of the tape is to be displayed in increments of hours, minutes, seconds and frames.

The time code is written in the sub-code area (data area) of the helical track. This enables insert editing to be conducted independently using the time code alone. In addition, the VTR's playback speed can be read from the stop mode to slow-motion playback up to high-speed play (approx. 100X normal speed).

The time code values are indicated using the display and superimpose functions.

TCR 00 : 07 : 04 : 24
Frames
Hours Seconds
Minutes

<Note>
Time code reader values normally appear on the superimposed display.
Values appear as shown below on the front display.
Playback: Time code reader values
REC, EE: Time code generator values
Time code generator values can be checked when the REC button is pressed even during playback.

User bit

"User bit" refers to the 32-bit (8-digit) data frame among the time code signals which has been released to users. It enables operator numbers values to be recorded.
The alphanumeric characters which can be used for the user bit are the figures 0 to 9 and the letters A to F.

Recording internal/external time codes

1. Setting the internal time code

1 Place the VTR in the stop mode.

2 Set the CTL/TC/UB switch to TC.

3 Set the TC INT/EXT switch to INT. (Internal time code selected)

4 Set the RUN MODE. (setup menu No. 510)
REC (RUN): The time code runs at the same time as the recording proceeds.
FREE (RUN): The time code runs in the same way as the time regardless of the VTR's operation.

5 Set the REGEN MODE. (setup menu No. 504)
ON (REGEN): Continuity is maintained with the recorded time code before editing. (Detailed settings are also possible using the menu settings. See the menu items below.)
Setting menu No. 503 (TCG REGEN)
OFF (PRESET): Recording starts from the value set with the TC PRESET button.

6 Set the TC PRESET button.
Use the TC PRESET button to set the start number of the time code or user bit.

1 The leftmost digit flashes.
Align the flashing light and the digit to be set with the cursor buttons (◀, ▶).

2 Press the cursor button ▲ or ▼ to change the value.
Each time the button is pressed, the number changes. The setting range is given below.

- **When using the time code and user bit in real time**
  00:00:00:00 – 23:59:59:29
- **User bit**
  00 00 00 00 – FF FF FF FF

3 Repeat steps 1 and 2 to change the value.

4 When the setting of the start number is completed, press the SET button. In the FREE RUN mode, the time code now starts running.

5 Proceed with the recording or editing.

2. Setting the external time code (TC switch → EXT)

1 Place the VTR in the stop mode.

2 Set the TC/CTL/UB switch to TC.

3 Set the TC INT/EXT switch to EXT. (External time code selected)

4 Setup menu No. 505 (EXT TC SEL) can be set as follows.
LTC: The LTC signal input to the TIME CODE IN connector (BNC) on the rear jack panel is recorded as the time code.
<Note> The LTC signal must be synchronized with the video signal.
VITC: The input video signal's VITC is recorded as the time code.

Reproducing the time code/user bit

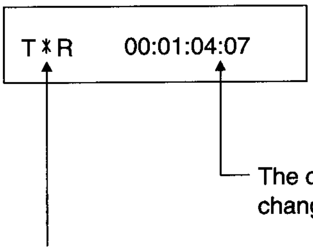
1. Place the unit in the stop mode.

2. Set the CTL/TC/UB switch to TC or UB.
   TC: The time code is displayed.
   UB: The user bit is displayed.
   - When it is no longer possible to read the time code, it is interpolated using the CTL signal.

3. Press the PLAY button.
   Playback now commences, and the time code appears on the display.
   When setup menu No.006 (SUPER) is ON, the time code value is superimposed onto the video signal from the VIDEO OUT 3 connector.

<Notes>

- The colon between the seconds and frames changes to a period when the drop frame time code is read.
- When the time code signal cannot be read, the time code is automatically interpolated by the CTL signal.
  The superimposed appears as shown below.

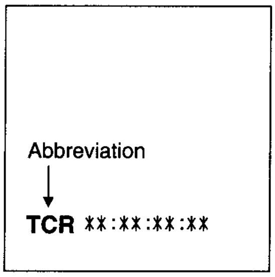


The colon between the seconds and frames changes to a period during drop frame mode.

When the time code signal cannot be read, an asterix (*) is displayed on the superimposed TV monitor.

Superimpose screen

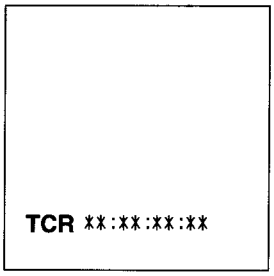
The control signals, time code, etc. are displayed using abbreviations.



TV monitor

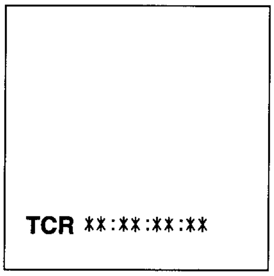
CTL = control signal
TCR = TC time code reading
UBR = TC user bit reading

Characters displayed
The background of characters superimposed on the display can be changed using setup menu No. 007 (CHARA TYPE).

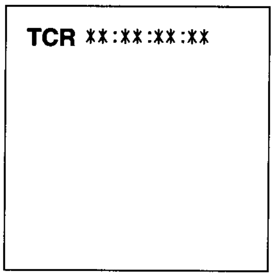


TV monitor

Display position
The position of the characters superimposed on the display can be changed using setup menus No. 001 (CHARA H-POS) and No. 002 (CHARA V-POS).

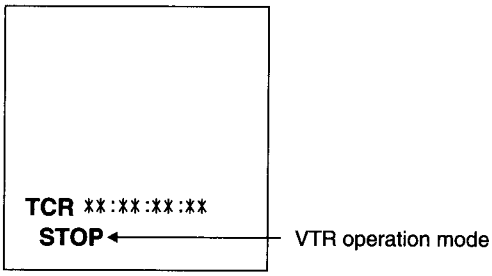


TV monitor



TV monitor

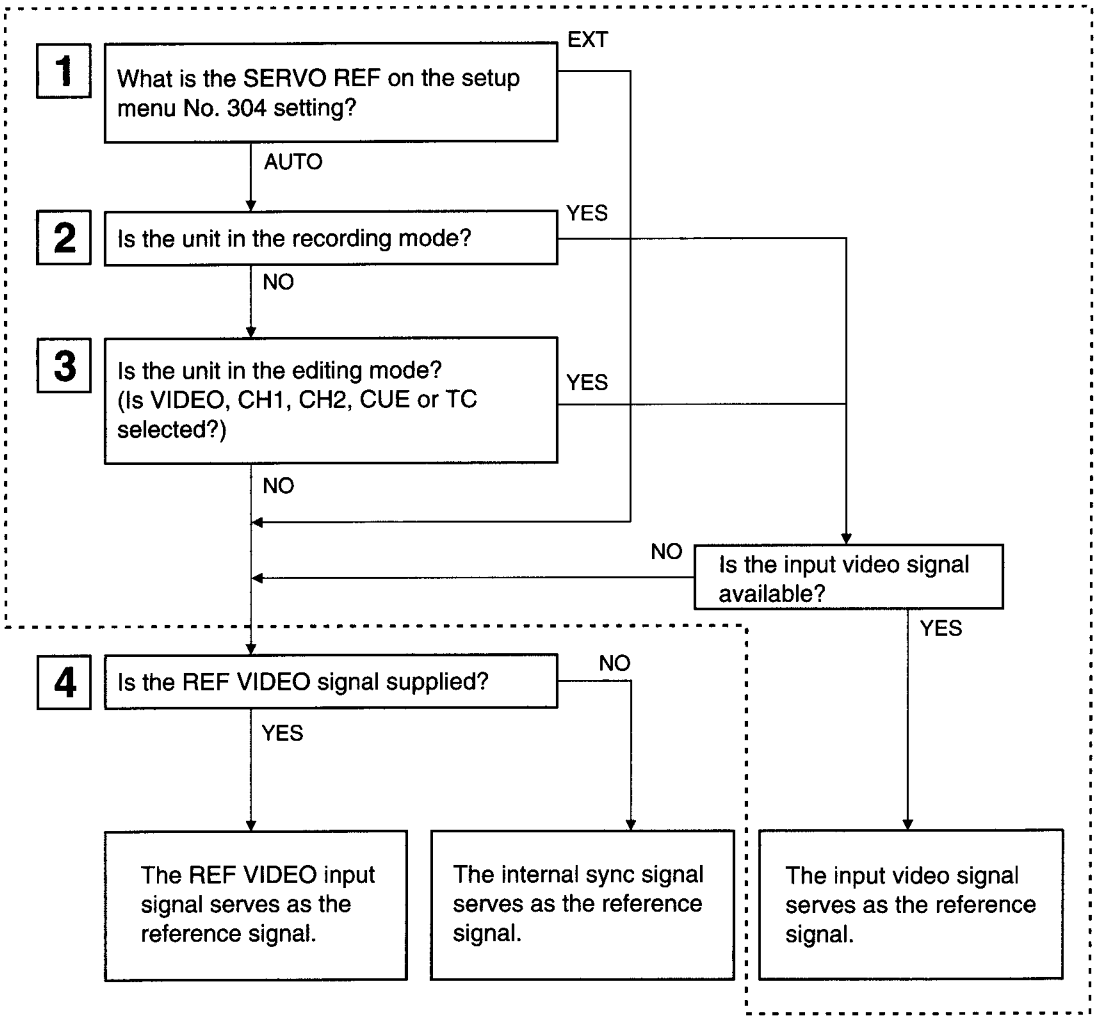
Operation mode
The VTR's operation mode can also be displayed using setup menu No. 003 (DISPLAY SEL).



TV monitor

Servo reference

This unit automatically selects the input video signal selected by the INPUT switch, the reference video signal supplied from the REF VIDEO input connector or the internal sync signal as the servo reference signal.
When the signal is selected, the unit's mode and servo reference stand in the relationship shown in the flowchart presented below.


1
What is the SERVO REF on the setup menu No. 304 setting?
EXT
AUTO
2
Is the unit in the recording mode?
YES
NO
3
Is the unit in the editing mode? (Is VIDEO, CH1, CH2, CUE or TC selected?)
YES
NO
NO
Is the input video signal available?
YES
4
Is the REF VIDEO signal supplied?
NO
YES
The REF VIDEO input signal serves as the reference signal.
The internal sync signal serves as the reference signal.
The input video signal serves as the reference signal.

⁚⁚⁚ Applicable only to AJ-D450.

Servo reference setting tables

The servo reference signal is switched as shown in the tables below depending on the servo reference setting, deck mode and what input signal is available. When the mode is transferred to editing or recording/playback, the image may be disturbed and the transfer may be delayed if the references during playback and recording do not match.

■ **During playback or special playback (AJ-D450 only)**

SERVO REF on the setup menu No. 304 position	Input signal status		Reference signal (servo reference)
	VIDEO IN signal	REF IN signal	
AUTO	○	○	REF IN signal
	○	×	Internal sync signal
	×	○	REF IN signal
	×	×	Internal sync signal
EXT	○	○	REF IN signal
	○	×	Internal sync signal
	×	○	REF IN signal
	×	×	Internal sync signal

■ **Playback or special playback (AJ-D440 only)**

Input signal status REF IN signal	Reference signal
○	REF IN signal
×	Internal sync signal

■ **During recording or editing (AJ-D450 only)**

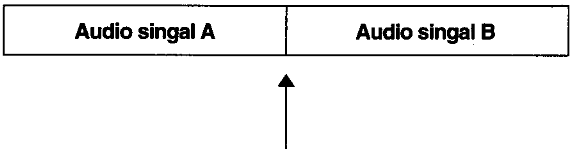
SERVO REF on the setup menu No. 304 position	Input signal status		Reference signal (servo reference)
	VIDEO IN signal	REF IN signal	
AUTO	○	○	VIDEO IN signal
	○	×	VIDEO IN signal
	×	○	REF IN signal
	×	×	Internal sync signal
EXT	○	○	REF IN signal
	○	×	Internal sync signal
	×	○	REF IN signal
	×	×	Internal sync signal

"○" denotes that the signal is supplied: "×" denotes that the signal is not supplied.

Audio V Fade Function (AJ-D450 only)

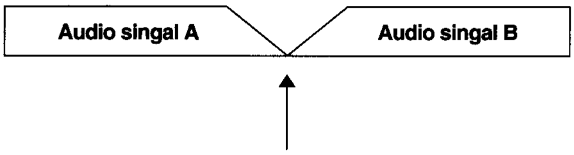
When editing tapes, the edit point splicing selection (setup menu No. 309 and 310) information is recorded on the tape. This information is then sensed during playback, and V fade or cut processing is automatically performed for these sections. [However, only when the playback fade selection (No. 719) is AUTO.]

When the edit point splicing selection (setup menu No. 309 and 310) is CUT



Noise may appear at the edit splice.

When the edit point splicing selection (setup menu No. 309 and 310) is FADE



V fade is performed instantaneously to eliminate the noise.

<Notes>

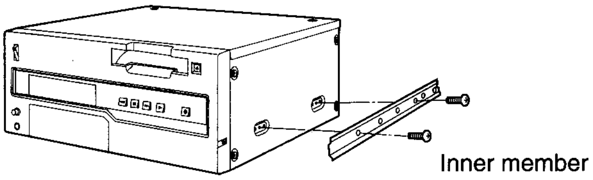
- When the playback fade selection (No. 719) is CUT, cut processing is performed for all splices.
- When the playback fade selection (No. 719) is FADE, V fade processing is performed for all splices.

Rack mounting

The unit can be mounted into a 19-inch standard rack if the optional rack-mounting adaptors (AJ-MA75P) are used. For the installation rails, it is recommended that the rail and bracket for 18" length (model number CC3001-99-0400) of CHASSIS TRAK be used. (The complete slide rail and bracket unit is not available from Panasonic) For further details, consult with your dealer.

1 Remove the screws on the left and right sides of the unit.

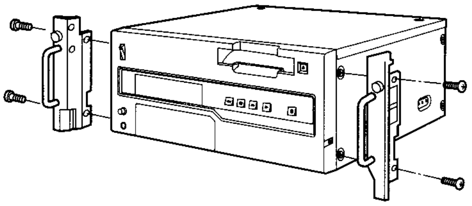
2 Use the removed screw to attach the inner members of the slide rails.



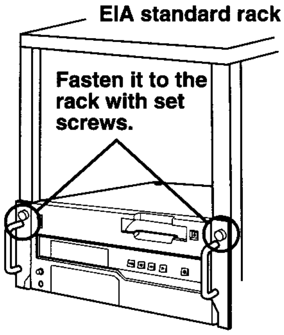
The length of the screws used is subject to restriction. If some of the mounting screws have been lost or misplaced, use screws which are less than 4" long in their place. Use four screws to secure each inner member.

3 Attach the outer member brackets to the rack.
Check that the height is the same for the left and right brackets.

4 Attach the AJ-MA75P rack-mounting adaptors with included 4 screws.



5 Remove the 4 rubber legs from the bottom of the unit, and install the unit in the rack.
After the unit has been installed, check that it moves smoothly along the rails.



<Notes>

- Keep the temperature inside the rack to between +41°F (5°C) and +104°F (40°C).
- Bolt the rack securely to the floor so that it will not topple over when the VTR is drawn out.

Rack mounting

The unit can be mounted into a 19-inch standard rack if the optional rack-mounting adaptors (AJ-MA75P) are used. For the installation rails, it is recommended that the rail and bracket for 18" length (model number CC3001-99-0400) of CHASSIS TRAK be used. (The complete slide rail and bracket unit is not available from Panasonic) For further details, consult with your dealer.

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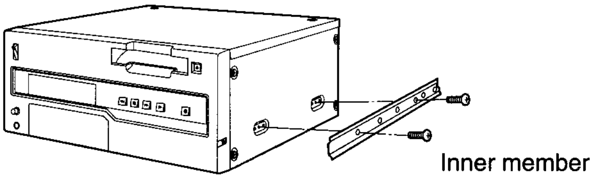
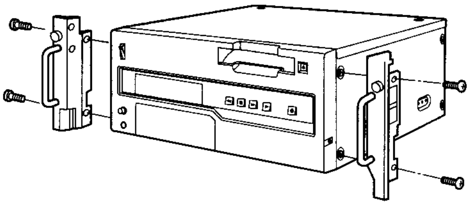


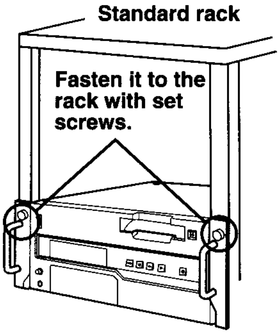
The length of the screws used is subject to restriction. If some of the mounting screws have been lost or misplaced, use screws which are less than 10 mm long in their place. Use four screws to secure each inner member.

3 Attach the outer member brackets to the rack.
Check that the height is the same for the left and right brackets.

4 Attach the AJ-MA75P rack-mounting adaptors with included 4 screws.



5 Remove the 4 rubber legs from the bottom of the unit, and install the unit in the rack.
After the unit has been installed, check that it moves smoothly along the rails.



<Notes>
- Keep the temperature inside the rack to between 5°C and 40°C.
- Bolt the rack securely to the floor so that it will not topple over when the VTR is drawn out.

Video head cleaning

This unit has an auto head cleaning function which automatically reduces the dirt on the heads. However, to further increase the unit's reliability, it is recommended that its video heads be cleaned every day.
Use the cleaning fluid designated by Panasonic.

Condensation

Condensation occurs due to the same principle involved when droplets of water form on a window pane of a heated room. It occurs when the unit or tape is moved between places where the temperature or humidity varies greatly or when, for instance:

- It is moved to a very humid place full of steam or a room immediately after it has been heated up.
- It is suddenly moved from a cold location to a hot or humid location.

When moving the unit to locations such as these, leave it standing for about 10 minutes rather than switching on the power immediately.
If condensation has formed on or in the unit, the "E-20" code flashes in the counter display and the cassette tape is automatically ejected.
Keep the power supplied and simply wait until the "E-20" code goes off.

Video head cleaning

This unit has an auto head cleaning function which automatically reduces the dirt on the heads. However, to further increase the unit's reliability, it is recommended that its video heads be cleaned every day.
Use the cleaning fluid designated by Panasonic.

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- It is moved to a very humid place full of steam or a room immediately after it has been heated up.
- It is suddenly moved from a cold location to a hot or humid location.

When moving the unit to locations such as these, leave it standing for about 10 minutes rather than switching on the power immediately.
If condensation has formed on or in the unit, the "E-20" code flashes in the counter display and the cassette tape is automatically ejected.
Keep the power supplied and simply wait until the "E-20" code goes off.

- Do not insert fingers or any objects into the video casette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the unit and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the unit when not in use.
- Do not block the ventilation slots of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Colour or Black & White recording.
- Do not attempt to disassemble the unit.
  There are no user serviceable parts inside.
- If any liquid spills inside the unit, have the unit examined for possible damage.
- Refer any needed servicing to authorized service personnel.

Error messages

When a warning occurs in this unit, an error number appears at the counter display. Opening the DIAG menu will display the error description on the monitor. Also, when an abnormal operation is detected in this unit, an error number flashes on the counter display.

DIAG menu

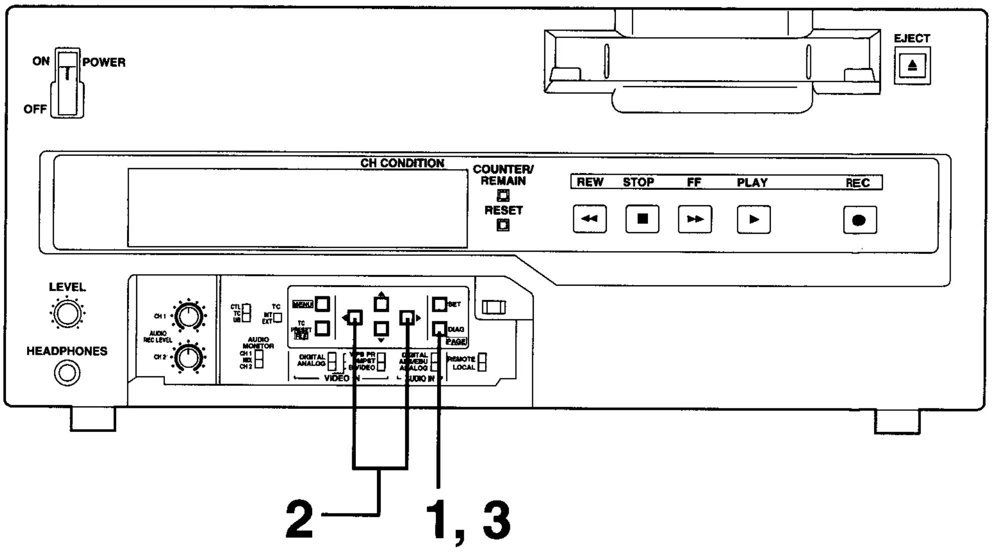
This display the VTR information.
VCR information includes “WARNING” information and “HOURS METER” (usage time) information. A DIAG menu appears on the monitor when the monitor is connected to the VIDEO OUT 3 connector on the connector section.

Displaying the DIAG menu

1 Press the DIAG button.
The DIAG menu screen is displayed on the monitor, and the error number is displayed on the counter display.

2 The “WARNING” information and “HOURS METER” information can be switched by pressing the cursor buttons (◀, ▶).

3 Press the DIAG button again to return to the original display.



“WARNING” information display

- A warning message is displayed on the monitor whenever a warning occurs. When warnings have not been detected, “NO WARNING” is displayed on the monitor, and “Err–” is displayed on the counter display.
- When multiple warning occur, the descriptions for each warning can be checked by using the cursor buttons (▲, ▼).

Error messages

Displaying the "HOURS METER" information

Press the cursor buttons (▲, ▼) to move the cursor (*).
The number for the item where the cursor is located is shown on the counter display.

Item No.	Item	Description
H00	OPERATION	Displays the time that the power has been supplied in one-hour units (10-hour units at the counter display).
H01	DRUM RUN	Displays the time that the drum has been rotating in one-hour units (10-hour units at the counter display).
H02	TAPE RUN	Displays the time that the tape has been running during FF, REW, PLAY, SEARCH (JOG, VAR, SHTL), REC, and EDIT modes (except for STILL in the JOG, VAR or SHTL mode) in one-hour units (10-hour units at the counter display).
H03	THREADING	Displays the number of times for threading/unthreading in single units (10-count units at the counter display).
H11	DRUM RUN r	Displays the time that the drum has been rotating in one-hour units (10-hour units at the counter display). (Can be reset)
H12	TAPE RUN r	Displays the time that the tape has been running during FF, REW, PLAY, SEARCH (JOG, VAR, SHTL), REC, and EDIT modes (except for STILL in the JOG, VAR or SHTL mode) in one-hour units (10-hour units at the counter display). (Can be reset)
H13	THREADING r	Displays the number of times for threading/unthreading in single units (10-count units at the counter display). (Can be reset)

<Note>
The resettable items in the "HOURS METER" information are reset by the service personnel when performing maintenance or other work.

If T&S&M is selected in the setup menu No. 003 (DISPLAY SEL), a message appears in the mode display whenever a warning or error occurs. When multiple events occur, the event with the highest priority is displayed.

Priority	Counter display and monitor display	Description
High ▲	Error messages (See error message table)	When an abnormal operation is detected in this machine, an error number flashes on the counter display and an error message is displayed.
	INT SG*	If "BB" in No. 601 (INT BB SIG) in the setup menu is selected, pressing the REC button (E to E mode) will display "INT SG" for the first two seconds. In the AJ-D450, this is also displayed for the first two seconds when starting editing from the external controller.
	NO INPUT*	If there is no input signal (except for analog audio) to the connector selected using the INPUT SELECT switch, pressing the REC button (E to E mode) will display "NO INPUT" for the first two seconds. In the AJ-D450, this is also displayed for the first two seconds when starting editing from the external controller.
▼ Low	Warning messages (See warning message table)	When a warning occurs in this unit, an error number appears at the counter display and warning message is displayed. When multiple warnings occur, the warning with the highest priority is displayed.

<Note>
Items marked with an asterisk (*) indicate AJ-D450 only.

Warning

Priority	Error No.	TV monitor display*	Description	VTR operation
High ↑	**E-10*** **(Err-10)**	FAN STOP	Error No. lights when a fan motor stops operating.	Continued
	E-00* **(Err-00)**	SERVO NOT LOCKED	Error No. lights when servo disturbances continue for 3 or more seconds during playback, recording or editing.	Continued
	E-01* **(Err-01)**	LOW RF	Error No. lights when envelope levels approx. 1/3 that of normal levels are detected for more than 1 sec. during playback, recording or editing.	Continued
↓ Low	**E-02*** **(Err-02)**	HIGH ERROR RATE	Error No. lights when the error rate increases and correction/interpolation is performed on either the video or audio playback signal.	Continued

* Displays when warning information is checked by pressing the DIAG button.

AUTO OFF mode

The following error number flashes on the counter display section.

Error No.	TV monitor display	Descriptions	VTR operation (VTR measures)
E-20	DEW	When condensation is detected, the error no. display flashes, and the unit goes into EJECT mode. The drum rotates after the cassette tape is ejected to remove condensation. When the condensation has been removed, the error no. display disappears and the VTR may be used. **<Notes>** 1) The drum rotates as soon as condensation is detected when the unit is in EJECT mode. 2) When condensation is detected while a cassette tape is inserted, drum rotation stops, the cassette tape is ejected and the drum rotation begins again.	EJECT
E-29	FRONT LOAD MOTOR	The cassette does not move up even when 6 seconds have elapsed since the VTR was transferred to the eject mode. **<Note>** After inserting the cassette, the unit will go to EJECT mode if cassette is not loaded after six seconds.	Stop (POWER OFF→ON)
E-31	LOADING MOTOR	The unloading operation is not completed within 6 seconds. **<Note>** The unit will go to EJECT mode (unloading) if the loading operation is not completed within six seconds.	Stop (POWER OFF→ON)
E-35	SERVO CONTROL ERR	There is no response from the servo microcomputer for 1 or more seconds.	Stop (POWER OFF→ON)
E-36	SERVO ERROR	Only the servo microcomputer was reset in an instantaneous power failure.	Stop (POWER OFF→ON)
E-37	SERVO COMM ERROR	The servo microcomputer does not follow the instructions of the system control micorcomputer even when 10 seconds have elapsed.	Stop (POWER OFF→ON)

Error messages

Error No.	TV monitor display	Descriptions	VTR operation (VTR measures)
E-51	FRONT LOAD ERROR	The take-up reel has been rotating idly for a fixed period of time while the start/end processing operation during loading (half position) is being performed.	Stop (POWER OFF→ON)
E-52	W-UP REEL NOT ROTA	After the cassette has been inserted, the tape take-up reel has not wound up the tape while the total tape amount is not detected and while the tape is traveling.	Stop (POWER OFF→ON)
E-53	WINDUP ERROR	After the total tape amount has been detected, the amount of tape wound up on the take-up reel and the amount of tape supplied by the supply reel differ to an abnormal extent while the tape is traveling.	Stop (POWER OFF→ON)
E-55	UNLOAD ERROR	The tape has not been wound up during unloading.	Stop (POWER OFF→ON)
E-57	S-FF/REW TIMEOVER	The start/end processing operation is not completed even after 10 or more seconds have elapsed.	Stop (POWER OFF→ON)
E-59	DRUM ROTA TOO SLOW	The cylinder motor speed is abnormally low.	Stop (POWER OFF→ON)
E-60	DRUM ROTA TOO FAST	The cylinder motor speed is abnormally high.	Stop (POWER OFF→ON)
E-61	CAP ROTA TOO SLOW	The capstan motor speed is abnormally low.	Stop (POWER OFF→ON)
E-64	S REEL TOO FAST	The supply reel motor speed is abnormally high.	Stop (POWER OFF→ON)
E-67	T REEL TOO FAST	The tape-up reel motor speed is abnormally high.	Stop (POWER OFF→ON)
E-69	T REEL TORQUE ERR	An abnormal torque applied to the take-up reel motor is detected.	Stop (POWER OFF→ON)
E-70	S REEL TORQUE ERR	An abnormal torque applied to the supply reel motor is detected or if an abnormal current flowing to the current-sensing resistor is detected.	Stop (POWER OFF→ON)
E-71	CAP TENSION ERROR	An abnormal tension at the supply side is detected in the capstan mode.	Stop (POWER OFF→ON)
E-72	REEL TENSION ERROR	An abnormal tension at the supply side is detected in the reel mode.	Stop (POWER OFF→ON)
E-73	REEL DIR UNMATCH	The reel motor at the take-up side is running in the reverse direction.	Stop (POWER OFF→ON)
E-FF	E-FF	Tape start and end are detected simultaneously during loading or after loading is completed.	Stop (POWER OFF→ON)

RS-232C interface

1. Introduction

(1) The VTR can be operated by commands when the RS-232C interface is used.

(See command table on page 60 – 62.)

(2) Conditions for acknowledging commands from RS-232C interface

The front panel REMOTE/LOCAL switch must be at REMOTE.
The setup menu item No. 204 "RS232C SEL" must be ON.

If the above conditions are not met, [ACK] + [STX]ER001[ETX] is returned to the external unit.
Whether the [ACK] code is returned depends on the setting which has been selected for setup menu item No. 209 "RETURN ACK".

2. Hardware specifications

External interface specifications

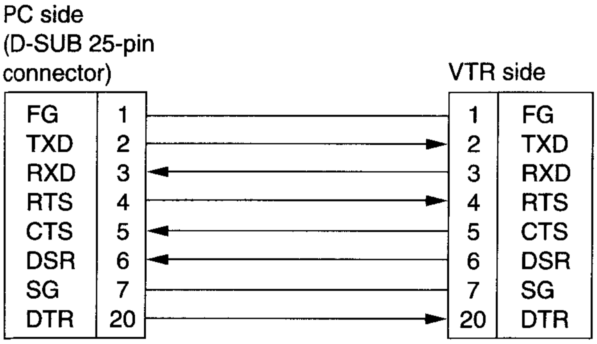
1) Connector specifications

Connector: D-SUB 25-pin (straight cable supported)

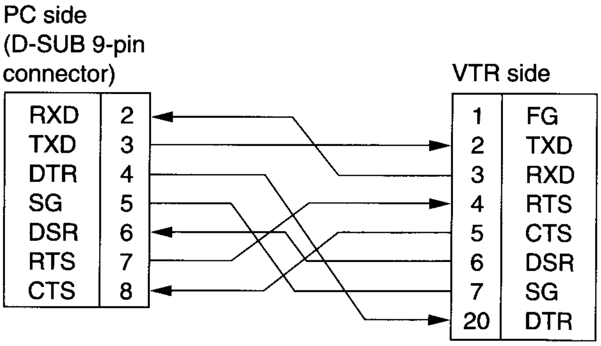
Pin No.	Signal	Circuit name	Description
1	FG	Protective ground	Frame ground
2	TXD	Transmitted data	Data is received from PC.
3	RXD	Received data	Data is sent to PC.
4	RTS	Request to send	Shorted with pin 5.
5	CTS	Clear to send	Shorted with pin 4.
6	DSR	Data set ready	+ voltage output after communication enable status
7	SG	Signal ground	Signal ground
20	DTR	Data terminal ready	No processing

2) Example of connection with controller (PC)

■ Using straight cable with D-SUB 25-pin connectors


PC side
(D-SUB 25-pin
connector)
VTR side
FG 1
TXD 2
RXD 3
RTS 4
CTS 5
DSR 6
SG 7
DTR 20
1 FG
2 TXD
3 RXD
4 RTS
5 CTS
6 DSR
7 SG
20 DTR

■ Using straight cable with D-SUB 9-pin connectors and 25-pin connectors


PC side
(D-SUB 9-pin
connector)
VTR side
RXD 2
TXD 3
DTR 4
SG 5
DSR 6
RTS 7
CTS 8
1 FG
2 TXD
3 RXD
4 RTS
5 CTS
6 DSR
7 SG
20 DTR

3. Software specifications

Protocol

1) Communication parameters

Communication system	Asynchronous, full duplex
Communication speed	300/600/1200/2400/4800/9600
Bit length	7 bit/8 bit
Stop bit	1 bit/2 bit
Parity bit	NONE/ODD/EVEN
ACK code	ACK code returned/ACK code not returned **<Note>** The ACK code is what is returned from the VTR to the controller when data has been successfully sent from the controller.

The underlining indicates the factory settings.

Any changes to the settings can be made using the setup menu items listed below.

Communication parameter	Setup menu item
Communication speed	No. 205 BAUD RATE
Bit length	No. 206 DATA LENGTH
Stop bit	No. 207 STOP BIT
Parity bit	No. 208 PARITY
ACK code	No. 209 RETURN ACK

2) Send format [controller (PC) → VTR]

■ Data format

```
[STX] [command]  [:]  [data] [ETX]
 02h   XX XX XX  3Ah  XX-XX   03h     ←(ASCII code: symbols, numbers upper-case letters)

                   20h<XX<7Fh
```

- [command]: Command identifier; a 3-byte identifier (ASCII code: symbols, numbers, upper-case letters) is sent as the command.
- [:]: This code serves as a delimiter between the command and data.
- [data]: Data (ASCII code: symbols, numbers, upper-case letters) can be added in the number of bytes required.

■ Outline of send procedure from controller

1. The send command starts with STX (start of text = 02h). The command is then identified by COMMAND which follows and the data is added as required.
   The format ends with ETX (end of text = 03h).
2. When a different command is to be sent, a response is awaited from the VTR, and then the command is sent. (See page 59.)
3. If STX is sent again before ETX is sent, the receive data buffer inside the VTR is cleared. A command error is returned to the controller, and the data is newly processed with STX which was received again at the head.

3) Return format [VTR → controller (PC)]

The following responses are made to the command. If necessary, more than one response is made.

■ When the communication has terminated normally

1. The receive completion message is returned.
   [ACK]
   06h

2. The execution completion message is returned.
   [STX] [command] [data] [ETX]
   02h XX XX XX XX-XX 03h

- [command]: This is the message (data) which is returned or the execution completion message identifier.
- [data]: This is the data to be returned. It can be omitted.

Example: Send command → Return message (data)
[STX] OPL [ETX] → [ACK] [STX] OPL [ETX]

■ When the communication has terminated abnormally

[NACK]
15h

■ When processing is not possible due to incorrect data or trouble in the VTR

1. The receive completion message is returned.
   [ACK]
   06h

2. An error code is returned.

   [STX] E R N_1 N_2 N_3 [ETX]
   02h Error code 03h

4. Error code table

ER001: Invalid command
- Unsupported command received.
- Error in command execution

ER002: Parameter error
ER102: VTR mode error (front loading motor)
ER103: VTR mode error (loading motor)
ER104: VTR mode error (drum, capstan system)
ER105: VTR mode error (reel system)
ER106: VTR mode error (tension system)
ER108: VTR dew error
ER1FF: VTR system error

5. Command table

(1) Commands relating to operation control

<Notes>

- As for the return (completion) message, [ACK] is first returned when data is received, and the execution message is subsequently returned. It is only the execution message which is listed in this table.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
STOP	[STX] OSP [ETX]	[STX] OSP [ETX]	This command is for stopping the tape travel. The resulting output picture and sound statuses differ according to the settings selected for the setup menu No. 111 (STOP EE SEL).
EJECT	[STX] OEJ [ETX]	[STX] OEJ [ETX]	This command is for ejecting the cassette tape. The resulting output picture and sound statuses differ according to the settings selected for the setup menu No. 109 (EJECT EE SEL).
PLAY	[STX] OPL [ETX]	[STX] OPL [ETX]	This command is for starting playback.
REWIND	[STX] ORW [ETX]	[STX] ORW [ETX]	This command is for rewinding the tape. The resulting output picture and sound statuses differ according to the settings selected for the setup menu No. 110 (F/R EE SEL). The maximum tape speed differs according to the setting selected for setup menu No. 102 (FF. REW MAX).
FAST FORWARD	[STX] OFF [ETX]	[STX] OFF [ETX]	This command is for fast forwarding the tape. The resulting output picture and sound statuses differ according to the settings selected for the setup menu No. 110 (F/R EE SEL). The maximum tape speed differs according to the setting selected for setup menu No. 102 (FF. REW MAX).
REC*	[STX] ORC [ETX]	[STX] ORC [ETX]	This command is for starting the recording.
SHTL FORWARD	[STX] OSF:data [ETX]	[STX] OSF [ETX]	This is the forward direction shuttle command.
	data = n: speed data 0: STILL 1: ×0.03 (DVCPRO), ×0.03 (DV, DVCAM) 2: ×0.1 (DVCPRO), ×0.1 (DV, DVCAM) 3: ×0.2 (DVCPRO), ×0.3 (DV, DVCAM) 4: ×0.5 (DVCPRO), ×0.5 (DV, DVCAM) 5: ×1 (DVCPRO), ×1 (DV, DVCAM) 6: ×1.85 (DVCPRO), ×1.85 (DV, DVCAM) 7: ×4.1 (DVCPRO), ×3.1 (DV, DVCAM) 8: ×9.5 (DVCPRO), ×9.5 (DV, DVCAM) 9: ×16 (DVCPRO), ×16 (DV, DVCAM) : This speed differs according to the setting selected for setup menu No. 101 (SHTL MAX). A: ×32 (DVCPRO), ×32 (DV, DVCAM) : This speed differs according to the setting selected for setup menu No. 101 (SHTL MAX).		

***Applicable only to AJ-D450.**

VTR operation	Send command	Return (completion) message	Supplementary notes
SHTL REVERSE	[STX] OSR:data [ETX]	[STX] OSR [ETX]	This is the reverse direction shuttle command.
	data = n: speed data 0: STILL 1: ×0.03 (DVCPRO), ×0.03 (DV, DVCAM) 2: ×0.1 (DVCPRO), ×0.1 (DV, DVCAM) 3: ×0.2 (DVCPRO), ×0.3 (DV, DVCAM) 4: ×0.43 (DVCPRO), ×0.5 (DV, DVCAM) 5: ×1 (DVCPRO), ×1 (DV, DVCAM) 6: ×1.85 (DVCPRO), ×1.85 (DV, DVCAM) 7: ×4.1 (DVCPRO), ×3.1 (DV, DVCAM) 8: ×9.5 (DVCPRO), ×9.5 (DV, DVCAM) 9: ×16 (DVCPRO), ×16 (DV, DVCAM) : This speed differs according to the setting selected for setup menu No. 101 (SHTL MAX). A: ×32 (DVCPRO), ×32 (DV, DVCAM) : This speed differs according to the setting selected for setup menu No. 101 (SHTL MAX).		
STANDBY OFF	[STX] OBF [ETX]	[STX] OBF [ETX]	This command is setting the VTR to standby OFF.
STANDBY ON	[STX] OBN [ETX]	[STX] OBN [ETX]	This command is setting the VTR to standby ON.

(2) Commands relating to inquiries

<Notes>

- As for the return (completion) message, [ACK] is first returned when data is received, and the execution message is subsequently returned. It is only the execution message which is listed in this table.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
CTL/TC DATA REQUEST	[STX] QCD [ETX]	[STX] CD data [ETX]	This command is for inquiring about the counter value.
		data = f w gh mm ss ff f = F w = S gh = CTL: g = SP (20h): for a plus display – (2Dh): for a minus display h = 0 – 9: hours TC: gh = 00 – 23: hours mm = 00 – 59: minutes ss = 00 – 59: seconds ff = 00 – 29: frames	CTL or TC is returned, whichever corresponds to the front display mode.
STATUS REQUEST	[STX] QOP [ETX]	[STX] xxx [ETX]	This command is for inquiring about the VTR's operation mode.
		xxx = OEJ: EJECT OFF: FAST FORWARD OPL: PLAY ORC: REC ORW: REWIND OSP: STOP (including the STANDBY ON) SRS: (IN/OUT) PREROLL OBF: STANDBY OFF OSF: SHTL FORWARD OSR: SHTL REVERSE OJG: JOG FORWARD/REVERSE OSW: VAR FORWARD/REVERSE EAE: AUTO EDIT EON: EDIT ON (MANUAL EDIT) EPV: PREVIEW ERV: REVIEW	
ID (VTR No.) REQUEST	[STX] QID [ETX]	[STX] data [ETX]	This command is for inquiring about the VTR used.
		data = AJ-D440, AJ-D450	

(2) Commands relating to inquiries

<Notes>

- As for the return (completion) message, [ACK] is first returned when data is received, and the execution message is subsequently returned. It is only the execution message which is listed in this table.
- In the case of commands not listed in the table, ER001 (invalid command) is returned after [ACK] has been returned.

VTR operation	Send command	Return (completion) message	Supplementary notes
CTL/TC DATA REQUEST	[STX] QCD [ETX]	[STX] CD data [ETX]	This command is for inquiring about the counter value.
		data = f w gh mm ss ff f = F w = S gh = CTL: g = SP (20h): for a plus display – (2Dh): for a minus display h = 0 – 9: hours TC: gh = 00 – 23: hours mm = 00 – 59: minutes ss = 00 – 59: seconds ff = 00 – 24: frames	CTL or TC is returned, whichever corresponds to the front display mode.
STATUS REQUEST	[STX] QOP [ETX]	[STX] xxx [ETX]	This command is for inquiring about the VTR's operation mode.
		xxx = OEJ: EJECT OFF: FAST FORWARD OPL: PLAY ORC: REC ORW: REWIND OSP: STOP (including the STANDBY ON) SRS: (IN/OUT) PREROLL OBF: STANDBY OFF OSF: SHTL FORWARD OSR: SHTL REVERSE OJG: JOG FORWARD/REVERSE OSW: VAR FORWARD/REVERSE EAE: AUTO EDIT EON: EDIT ON (MANUAL EDIT) EPV: PREVIEW ERV: REVIEW	
ID (VTR No.) REQUEST	[STX] QID [ETX]	[STX] data [ETX]	This command is for inquiring about the VTR used.
		data = AJ-D440E, AJ-D450E	

(3) Microsoft QuickBASIC sample program

```
CLS
STX$ = CHR$(&H2): ETX$ = CHR$ (&H3): NAK$ = CHR$(15): ACK$ = CHR$(&H6)
PRINT "*** RS-232C COMMUNICATION SAMPLE PROGRAM ***"
PRINT "Type Command 'QUIT' to quit."
PRINT

REM *** Communication Port Initial & Open ***
REM Port 1,9600Bps,No parity,8 bit data,1 stop bit
OPEN "COM1:9600,N,8,1" FOR RANDOM AS #1 LEN = 256

REM *** Input Command & Send Command ***
SendCmd:
INPUT "Input Command ="; SEND$
IF SEND$ = "QUIT" THEN GOTO ProgEnd
PRINT #1, STX$ + SEND$ + ETX$

REM *** Wait for Receive Command ***
WHILE LOC(1) = 0
        WAITKEY$ = INKEY$
        IF WAITKEY$ = "Q" THEN PRINT "*** Quit ***": GOTO ProgEnd
WEND

REM *** Receive Command ***
RecvCmd:
RECV$ = INPUT$(1, #1)
IF RECV$ = STX$ THEN RECV$ = "[Stx]"
IF RECV$ = ACK$ THEN RECV$ = "[Ack]"
IF RECV$ = NAK$ THEN RECV$ = "[Nak]"
IF RECV$ = ETX$ THEN BUFFER$ = BUFFER$ + "[Etx]": GOTO DispOut
BUFFER$ = BUFFER$ + RECV$
GOTO RecvCmd

REM *** Output Receive Command ***
DispOut:
PRINT "Receive Command ="; BUFFER$
PRINT
BUFFER$ = ""
GOTO SendCmd

REM *** End Program ***
ProgEnd:
CLOSE
END
```

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Connector signals

VIDEO IN

(AJ-D450 only)

SERIAL IN (DIGITAL)	BNC × 2	Active through (Option)
Y, PB, PR (ANALOG)	BNC × 3	
VIDEO IN	BNC × 2	Loop-through, 75Ω termination switch provided
REF VIDEO IN	BNC × 2	Loop-through, 75Ω termination switch provided
S1-VIDEO IN	4-pin × 1	

VIDEO OUT

SERIAL OUT (DIGITAL)	BNC× 3	(Option)
Y, PB, PR (ANALOG)	BNC× 3	
VIDEO OUT	BNC × 3	
S1-VIDEO IN	4-pin × 1	

AUDIO IN

(AJ-D450 only)

SERIAL IN (DIGITAL)	BNC× 2	(Option)
AUDIO IN (DIGITAL)	BNC× 1	CH1/CH2 AES/EBU format (Option)
AUDIO IN (ANALOG)	XLR× 2	CH1、CH2
TIME CODE IN	BNC × 1	

Pin No.	Signal
1	GND
2	HOT
3	COLD

AUDIO OUT

SERIAL OUT (DIGITAL)	BNC× 3	(Option)
AUDIO OUT (DIGITAL)	BNC× 1	CH1/CH2 AES/EBU format (Option)
AUDIO OUT (ANALOG)	XLR× 2	CH1、CH2
TIME CODE OUT	BNC × 1	
MONITOR OUT	PHONO × 1	
HEADPHONES (front)	1/4" phone × 1	

RS-422A REMOTE (9P)

RMOTE

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	RECEIVE COMMON	7	TRANSMIT B
2	TRANSMIT A	5	———	8	RECEIVE A
3	RECEIVE B	6	TRANSMIT COMMON	9	FRAME GROUND

Connector signals

VIDEO IN

(AJ-D450 only)

SERIAL IN (DIGITAL)	BNC × 2	Active through (Option)
Y, PB, PR (ANALOG)	BNC × 3	
VIDEO IN	BNC × 2	Loop-through, 75Ω termination switch provided
REF VIDEO IN	BNC × 2	Loop-through, 75Ω termination switch provided
S1-VIDEO IN	4-pin × 1	

VIDEO OUT

SERIAL OUT (DIGITAL)	BNC × 3	(Option)
Y, PB, PR (ANALOG)	BNC × 3	
VIDEO OUT	BNC × 3	
S1-VIDEO IN	4-pin × 1	

AUDIO IN

(AJ-D450 only)

SERIAL IN (DIGITAL)	BNC × 2	(Option)
AUDIO IN (DIGITAL)	BNC × 1	CH1/CH2 AES/EBU format (Option)
AUDIO IN (ANALOG)	XLR × 2	CH1, CH2
TIME CODE IN	BNC × 1	

Pin No.	Signal
1	GND
2	HOT
3	COLD

AUDIO OUT

SERIAL OUT (DIGITAL)	BNC × 3	(Option)
AUDIO OUT (DIGITAL)	BNC × 1	CH1/CH2 AES/EBU format (Option)
AUDIO OUT (ANALOG)	XLR × 2	CH1, CH2
TIME CODE OUT	BNC × 1	
MONITOR OUT	PHONO × 1	
HEADPHONES (front)	6.35 mm phone × 1	

RS-422A REMOTE (9P)

RMOTE

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	FRAME GROUND	4	RECEIVE COMMON	7	TRANSMIT B
2	TRANSMIT A	5	———	8	RECEIVE A
3	RECEIVE B	6	TRANSMIT COMMON	9	FRAME GROUND

RS-232C REMOTE (25-pin D-SUB straight cable supported)

Pin No.	Abbreviation	Circuit	Description
1	FRAME GROUND	Protective ground	Frame ground
2	TxD	Transmitted data	Receives data from the PC.
3	RxD	Received data	Sends data to the PC.
4	RTS	Request to send	Shorted with pin 5.
5	CTS	Clear to send	Shorted with pin 4.
6	DSR	Data set ready	Positive power output after communication enable status
7	SG	Signal ground	Signal ground
20	DTR	Data terminal ready	No processing

ENCODER REMOTE (15P)

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	————	6	SYSTEM H	11	RET GND
2	SET UP	7	SYS.SC COARSE (2)	12	————
3	C LEVEL	8	–12V	13	————
4	GND	9	HUE	14	SYS.SC FINE
5	+12V	10	VIDEO LEVEL	15	SYS.SC COARSE (1)

SECTION 2

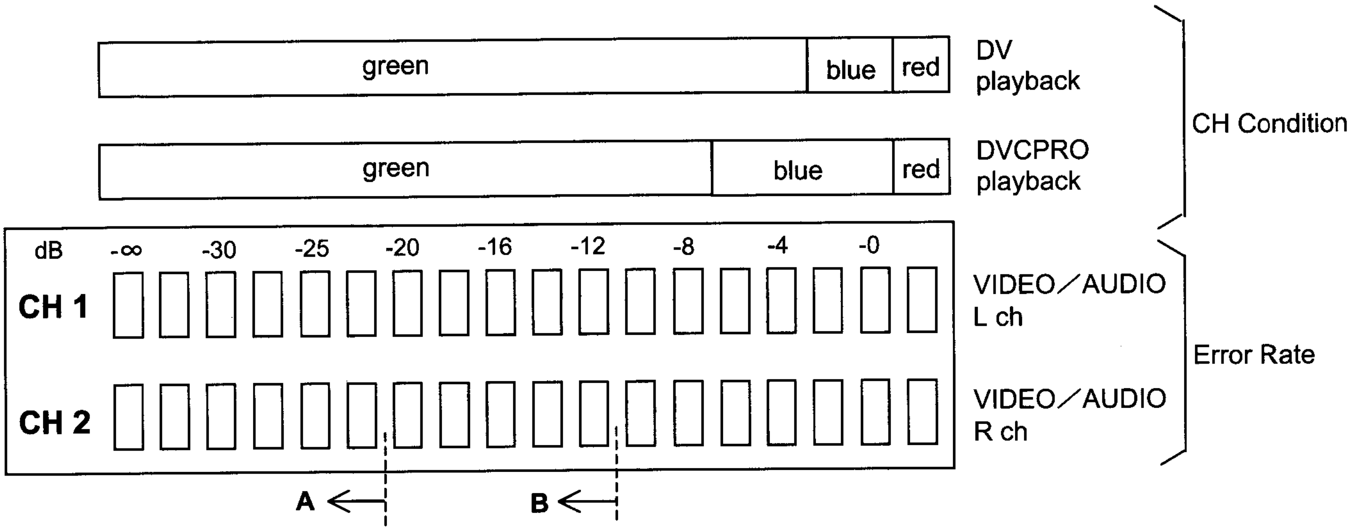
SERVICE INFORMATION

CONTENTS

1. Error Rate Display Procedure INF-1
2. Service Menu Information INF-2
3. How to Reset the Hour Meter INF-9
4. How to Confirm the Software Version...INF-10
5. Replacement Procedure of the P.C. Board.......................................INF-11
6. Servo LED Information INF-12
7. Auto off error message..INF-13
8. Auto off Check Point Table INF-17

1. ERROR RATE DISPLAY PROCEDURE

The error rate is displayed on the AUDIO LEVEL METER in Service menu mode.
(When enters in Service men mode, the AUDIO LEVEL METER changes into the error display mode automatically.)


green
blue
red
DV playback
green
blue
red
DVCPRO playback
CH Condition
dB
-∞
-30
-25
-20
-16
-12
-8
-4
-0
CH 1
CH 2
VIDEO／AUDIO L ch
VIDEO／AUDIO R ch
Error Rate
A
B

When "CH1" lamp of AUDIO LEVEL METER lights :

The upper portion of Level Meter shows the error rate of "AUDIO Lch".

The lower portion of Level Meter shows the error rate of "AUDIO Rch".

When "CH2" lamp of AUDIO LEVEL METER lights :

The upper portion of Level Meter shows the error rate of "VIDEO Lch".

The lower portion of Level Meter shows the error rate of "VIDEO Rch".

Switching between AUDIO error mode and VIDEO error mode is enable by pressing the DIAG button in the pocket of front panel.

Set the item on EQ ADJUST menu as shown below

MENU		DVC PRO (PB)	DV (R/P)
C22	ECC MODE	AL OFF	AL OFF
C23	CONCEALMODE	AFF	OFF
C24	VITABI MODE	AUTO	ON
C25	PB MODE	PB H	RP H
C26	ERROR MODE	SLOW	SLOW

Note: With above contents set automatically, when set the error rate display mode during normal operation.
※ Please refer to condition of the error rate follow the tape format and VTR mode, indicated as below.

	VTR mode	Standard of Error Rate
DVCPRO (PB)	Alignment tape playback	Under the "A" position at level meter
DV (R/P)	Alignment tape playback	Under the "B" position at level meter

2. Service Menu Information

< Operation Procedure >

(1) The "REMOTE/LOCAL" switch set to "LOCAL" on the front panel.
(2) Press the MENU button, then the Set up menu on the TV monitor.
(3) Keep holding press the EJECT button and STOP button, press the MENU button, then appeared Main menu of Service menu on the screen as indicated as below.

```
            SERVICE-MENU
               No. A00

  ＊ A00  :  SERVO ADJUST
     B00  :  EQ ADJUST
     C00  :  RF ADJUST
     D00  :  VIDEO ADJUST
     E00  :  AUDIO ADJUST
     F00  :  BACKUP RAM INIT
     END
```

MAIN Menu

(4) Move the star mark "＊" by "▼" or "▲" button on the front panel for select the each Adjustment menu.
(5) Press the SET button, then open the Adjustment Menu follow the selected item (A00 to H00) on the Main menu.
(6) Each Adjustment item are selected by. "▼" or "▲" button.
(7) For change the value or setting, press the "◀ " or " ▶" button.(same way of SET UP menu).

< KEY function for Service Menu >

[MENU button] :	①. Keep pressing EJECT and STOP button, press MENU button, then move to Main menu on Service menu from SET UP menu. ②. Move to Main menu from ADJUST menu on the Service menu ③. Move to SET UP menu from Main menu on Service menu.
[SET button] :	①. Move to ADJUST menu from Main menu on Service menu.
[▲] :	①. Move the cursor "＊" for select the each item (cursor move to up direction).
[▼] :	①. Move the cursor "＊" for select the each item (cursor move to down direction).
[◀] :	①. Change the numerical value or setting value of each item on ADJUST menu. (decrease adjustment value)
[▶]	①. Change the numerical value or setting value of each item on ADJUST menu. (Increase adjustment value)

< Store the adjustment and setting value to the memory >

When menu is escape from Adjustment menu to Main menu by press MENU button, each data write to the memory.

The contents of each "Adjustment menu" which are described on behind page.

Press the MENU button on the Main menu condition, then escape from Service menu mode.

A00:SERVO ADJUST

No.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
A01	PG SHIFTER	0～**1649**～4095 0～**1649**～4095	(RISE display) PG SHIFTER AUTO ADJ (FALL display).	Elec. Adj
A02	T TORQUE	-128～**0**～+127 Initial:0	Correct the offset value of T REEL MOTER DRIVE	Elec. Adj
A03	S TORQUE	-128～**0**～+127 Initial:0	Correct the offset value of S REEL MOTER DRIVE	Elec. Adj
A04	PB GAIN P	-128～**-1**～+127	LISTA SENSITIVITY Adj. (PB HEAD)	LISTA
A05	PB LINEAR P	0 1 ON	LISTA LINEARITY Adj. (PB HEAD)	LISTA
A06	RP GAIN P	-128～**-1**～+127	LISTA SENSITIVITY Adj. (R/P HEAD)	LISTA
A07	RP LINEAR P	0 1 ON	LISTA LINEARITY Adj. (R/P HEAD)	LISTA
A08	RP GAIN	-128～**-1**～+127	LISTA CONSUMER DV COMPATIBILITY CONFIRMATION	LISTA
A09	RP LINEAR	0 1 ON	LISTA CONSUMER DV LINEARITY Adj.	LISTA
A10	MOTOR CHECK	0 OFF 1 CAP 2 DRUM 3 T REEL 4 S REEL		* NOT USED

B00:EQ ADJUST

Note: The mark "●" indicated as common adjustment item for DVCPRO and DV.

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
B01	PB PLL PHASE	-128~**-40**~+127	PB PLL PHASE Adj. ●	Elec. Adj
B02	PB PLL SLICE	-128~**-70**~+127	PB PLL SLICE LEVEL Adj. ●	Elec. Adj
B03	PB AEQ	-128~**+75**~+127	PB AUTO EQ Adj. ●	Elec. Adj
B04	PB GAIN L	-128~**+30**~+127	PB Lch EQ GAIN Adj. ●	Elec. Adj
B05	PB PHASE L	-128~**-55**~+127	PB Lch EQ PHASE Adj. ●	Elec. Adj
B06	PB GAIN R	-128~**+30**~+127	PB Rch EQ GAIN Adj. ●	Elec. Adj
B07	PB PHASE R	-128~**-55**~+127	PB Rch EQ PHASE Adj. ●	Elec. Adj
B08	RP PLL PHASE	-128~**+50**~+127	RP PLL PHASE Adj.	Elec. Adj
B09	RP PLL SLICE	-128~**-70**~+127	RP PLL SLICE LEVEL Adj.	Elec. Adj
B10	RP AEQ	-128~**+75**~+127	RP AUTO EQ Adj.	Elec. Adj
B11	RP GAIN L	-128~**+30**~+127	RP Lch EQ GAIN Adj.	Elec. Adj
B12	RP PHASE L	-128~**-55**~+127	RP Lch EQ PHASE Adj.	Elec. Adj
B13	RP GAIN R	-128~**+30**~+127	RP Rch EQ GAIN Adj.	Elec. Adj
B14	RP PHASE R	-128~**-55**~+127	RP Rch EQ PHASE Adj.	Elec. Adj
B15	VTB PHASE 1	-128 +127	VITABI A/D CLOCK PHASE Adj. (LSB)	
B16	VTB PHASE 2	-128 +127	VITABI A/D CLOCK PHASE Adj.	
B17	VTB PHASE 3	-128 +127	VITABI A/D CLOCK PHASE Adj. (MSB)	
B18	VTB PHS FINE	-128~**-1**~+127	VITABI A/D CLOCK PHASE ADJ. (FINE Adj.)	
B19	PB MAIN DL	-128~**-40**~+127	PB EQ DELAY LINE Adj. ●	Elec. Adj
B20	RP MAIN DL	-128~**-40**~+127	RP EQ DELAY LINE Adj.	Elec. Adj
B21	PB PLL VCO	-128~**+66**~+127	PB PLL VCO Adj.	
B22	RP PLL VCO	-128~**+66**~+127	RP PLL VCO Adj.	
B23	VTB GAIN	-31~**-15**~+32	VITABI A/D INPUT LEVEL Adj. ●	Elec. Adj
B24	ECC MODE	0 ALL ON	ERROR CORRECTION INNER ON/OUTER ON	
		1 OT OFF	ERROR CORRECTION INNER ON/OUTER OFF	
		2 AL OFF	ERROR CORRECTION INNER OFF/OUTER OFF	
B25	CONCEAL MODE	0 ON	ERROR CONCEALMENT ON	
		1 OFF	ERROR CONCEALEMENT OFF ※This CONCEAL MODE function is only effective, when the above ECC MODE set to "ALL ON".	
B26	VITABI MODE	0 AUTO	VITABI ON	
		1 ON	VITABI ON	

		2 OFF	VITABI OFF	
B27	PB MODE	0 PB H 1 RP H	FORCED PB HEAD PLAYBACK FORCED RP HEAD PLAYBACK	
B28	ERROR MODE	0 FAST 1 SLOW	ERROR DISPLAY MODE “FAST” ERROR DISPLAY MODE “SLOW”	
B29	EQ AUTO ADJ	0 STOP 1 START	PB EQUALIZER AUTO Adj.	*NOT USED
B30	DEFAUT	0 LOAD 1 SAVE	LOAD THE FACTORY ADJUSTMENT VALUE SAVE THE ADJUSTMENT VALUE	

「 **How to LOAD or SAVE the adjustment value** 」

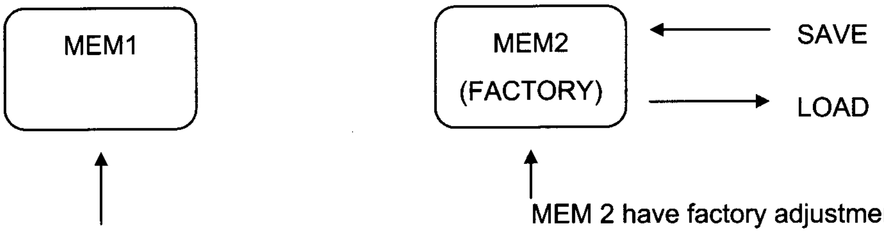
NOTE: This item (B30) is only active on the tape pass condition.

1. Press the SET button , the appear the message as indicated as below.

   ∗ SAVE
   LOAD
   END

2. Set the cursor “∗” to SAVE or LOAD and press the SET button, then execute the program.
   If cancel default screen without execute SAVE or LOAD operation, press menu button.

NOTE: 1. The VTR have two memory area for the adjustment value as indicated as below.



MEM 2 have factory adjustment value.

MEM1 is always renewed follow the adjustment value on the RF and EQ adjustment menu.

2. We recommended the SAVE function does not use on the market, because the renewed adjustment value is stored to MEM 1 automatically.

C00:RF ADJUST

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
C01	REC CURR L	-128~**0**~+127	SETTING OF REC CURR (RP Lch)	Elec. Adj
C02	REC FREQ L	-128~**0**~+127	SETTING OF REC FREQ (RP Lch)	Elec. Adj
C03	REC CURR R	-128~**0**~+127	SETTING OF REC CURR (RP Rch)	Elec. Adj
C04	REC FREQ R	-128~**0**~+127	SETTING OF REC FREQ (RP Rch)	Elec. Adj
C05	RE CURR L	-128~**0**~+127	SETTING OF ERASE CURR (RE Lch)	Elec. Adj
C06	RE CURR R	-128~**0**~+127	SETTING OF ERASE CURR (RE Rch)	Elec. Adj
C07	RP PHASE L	-128~**0**~+127	RP Lch PLAYBACK PHASE CORRECTION	
C08	RP PHASE R	-128~**0**~+127	RP Rch PLAYBACK PHASE CORRECTION	
C09	RP MAG L	-128~**0**~+127	RP Lch PLAYBACK OUTPUT GAIN CORRECTION	
C10	RP MAG R	-128~**0**~+127	RP Rch PLAYBACK OUTPUT GAIN CORRECTION	
C11	PB PHASE L	-128~**0**~+127	PB Lch PLAYBACK PHASE CORRECTION	
C12	PB PHASE R	-128~**0**~+127	PB Rch PLAYBACK PHASE CORRECTION	
C13	PB MAG L	-128~**0**~+127	PB Lch PLAYBACK OUTPUT GAIN CORRECTION	
C14	PB MAG R	-128~**0**~+127	PB Rch PLAYBACK OUTPUT GAIN CORRECTION	
C15	REC SIG	0 NORMAL 1 CW		* NOT USED
C16	ECC MODE	0 ALL ON 1 OT OFF 2 AL OFF		
C17	CONCEAL MODE	0 ON 1 OFF		
C18	VITERBI MODE	0 AUTO 1 ON 2 OFF		
C19	PB MODE	0 PB H 1 RP H		
C20	ERROR MODE	0 FAST 1 SLOW	ERROR RATE INDICATION FAST ERROR RATE INDICATION SLOW	
C21	TRACKING MOD	0 ATF 1 CTL	SELECTION OF TRACKING CONTROL MODE * This function is only active on the service Menu mode.	
C22	TRACKING VAL	-128~**0**~+127 Initial: 0	" IN CASE OF SELECT THE CTL MODE ON ABOVE ITEM C20, TRACKING VALUE IS ADJUSTABLE" * TRACKING VALUE RANGE DATA 0 - 116 : RELATIVE TO 1 TRACK THEREFORE 0 TO 127 IS RELATIVE TO JUST OVER 18 um	
C23	REC OPTIMAIZ	0 STOP 1 START		* NOT USED
C24	DEFAUT	0 LOAD 1 SAVE	LOAD THE FACTORY ADJUSTMENT VALUE SAVE THE ADJUSTMENT VALUE	

D00:VIDEO ADJUST

NO	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
D01	VIDEO BLANK	0 NORMAL 1 OFF	NORMAL : The video signal is blanked at video edge portion for protect the overshoot. OFF : Release the blanking function.	ELEC. ADJ.
D02	V IN PLL	0 OFF 1 ON		*AJ-450 only
D03	VIDEO MUTE	0 NORMAL 1 MUTE		
D04	SELF DUB GEN	0 OFF 1 3RD 2 10TH		*AJ-D450 only * NOT USED
D05	DUBBING MODE	0 FREEZE 1 REPEAT		*AJ-D450 only * NOT USED
D06	EE TEST MODE	0 NORMAL 1 DCI RT		*AJ-D450 only
D07	HEAD SELECT	0 PB. REC 1 PB 2 REC. PB 3 REC	PRIOR TO PB HEAD FORCED PB HEAD PRIOR TO REC HEAD FORCED REC HEAD	
D08	V SETUP	0 OFF 1 ON	VALID / INVALID SELECTION FOR SETUP MENU 613 : VIN SETUP AND 614 : VOUT SETUP 0 : SETUP MENU 613/614 NO DISPLAY 1 : SETUP MENU 613/614 DISPLAY	*AJ-D450 only =NTSC ONLY=
D12	VLOCK DET	0 OFF 1 ON	SET THE MUTE FUNCTION OPERATED OR NOT, WHEN VIDEO INPUT SIGNAL IS BECOME ABNORMAL. 0 : MUTE IS NOT OPERATED 1 : MUTE IS OPERATED	*AJ-D450 only =NTSC ONLY=

E00:AUDIO ADJUST

NO.	ITEM	SETTING VALUE	CONTENTS OF SETTING and ADJUSTMENT	REMARK
E01	MASTER REF	0 FS-20 1 FS-18	Select the position of " Reference level marker " on the Audio level Meter (CH1, CH2, CUE). 0: Set to -20dB position (For NTSC) 1: Set to -18dB position (For PAL)	
E04	LINE OUT CUE	0 OFF 1 ON	SELECT THE CUE AUDIO SIGNAL OUTPUT FROM LINE OUT TERMINAL(CH1/CH2) COMPULSORY. 0: NORMAL MODE SELECTION OF AUDIO OUTPUT SIGNAL (PCM OR CUE) BY SET UP MEMU(721:LINE CH SEL). 1: CUE SIGNAL OUTPUT	

3. HOW TO RESET THE HOUR METER

(1) When the DIAG button is pressed, VTR information is displayed. When DIAG button is pressed again, the original display is restored.

(2) There are two type of information : "HOUR METER" information and "WARNNING" information. Switching between these type is enabled by pressing cursor buttons (◀) and (▶).

(3) Indicated on the "HOUR METER" screen are the power on time (OPERATION), drum rotation time (DRUM RUN), tape travel time(TAPE RUN), loading count (THREADING). The HOUR METER information appear on the screen as indicated as below.

```
 DIAG-MENU    HOUR METER

*H00 : OPERATION          200H
 H01 : DRUM RUN            50H
 H02 : TAPE RUN            30H
 H03 : THERADING          100T
 H11 : DRUM RUN r          50H
 H12 : TAPE RUN r          30H
 H13 : THERADING r        100T
```

≪How to Reset≫

DRUM RUN, TAPE RUN and THREADING information can be reset individually.

(1) Set the Dip SW501-1 on the SYSCON(F2) P.C.Board to ON position.

(2) In EJECT mode, set the cursor "*" to the indicated "r" mark item(item 11,12 or 13) by pressing the cursor buttons (▲ or ▼). And press "RESET" button, then the following message appears on the screen.

```
HOURS METER INIT SET

   DRUM RUN r OK?
   YES <PLAY> NO <STOP>
```

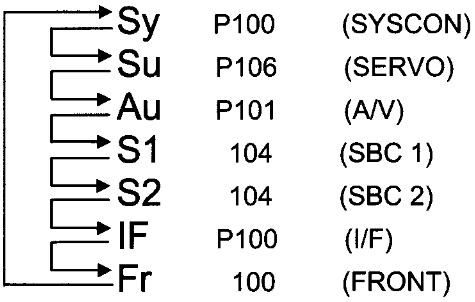
- * When press the "PLAY" button, then execute the reset function.
- * When press the "STOP" button, then cancel the reset command.

4. HOW TO CONFIRM THE SOFTWARE VERSION

1. Turn on the power.
2. Press the EJECT button.
3. Press the PLAY and STOP button simultaneously, then displayed the soft version on the counter display of the front panel.

   <example> **Fr** **P100**

4. Press the PLAY and STOP button repeatedly, change the display of all soft version in order as indicated as below.



Sy	P100	(SYSCON)
Su	P106	(SERVO)
Au	P101	(A/V)
S1	104	(SBC 1)
S2	104	(SBC 2)
IF	P100	(I/F)
Fr	100	(FRONT)

ROM location indicated as below table

Name	Reference number and Board
SYSCON	IC2 (SYSCON Board)
SERVO	IC235 (SERVO Board)
A/V	IC702 (A/V Board)
SBC 1	IC870 (REC PB Board)
SBC 2	IC910 (REC PB Board)
I/F	IC503 (SYSCON Board)
FRONT	IC2 (FRONT CPU Board)

5. Replacement Procedure of the P. C. Board

Please refer to below table, It indicated as which board is necessary adjustment after board exchanged. And perform the adjustment follow the adjustment procedure on this manual.

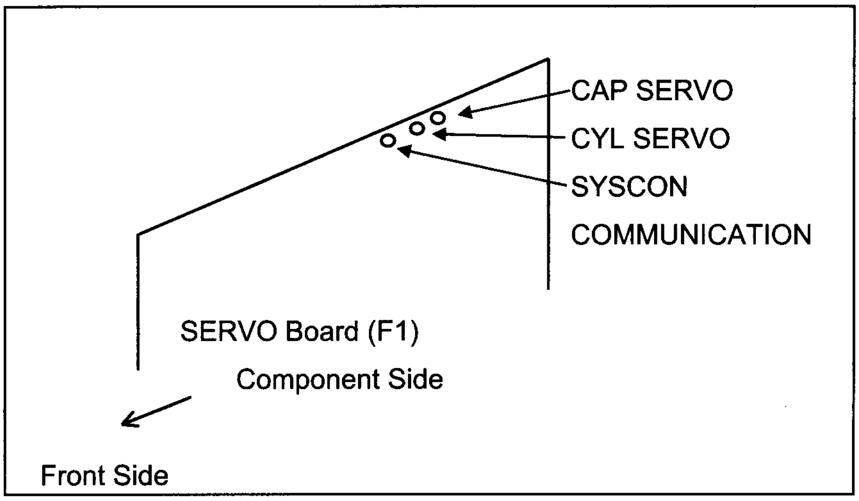
	Board	Adj.		Board	Adj.		Board	Adj.
F1	SERVO	O	F5	REC PB	O	H2	CUE	O
F2	SYSCON	O	F6	*V IN	O	H3	EQ	O
F3	SIF(Option)	----	F7	A PROC	×	H4	RF AMP	O
F4	V OUT	O	F8	ADDA	O	----	HEAD BUFF	×

* **NOTE:** AJ-D450 only

1. If there is a ROM on P.C.Board, please confirm the software version. Refer to confirmation procedure of software version on previous page.
2. The DATA RAM(IC17) is installed on SYSCON Board and it data can not saved to other equipment.. When SYSCON Board exchanged, remove the IC17 on original Board and put it to New Board. Another way of move the data, write down all of User data, Service data and numerical value of Hour Meter and input the data to new RAM. But numerical value of Hour Meter can not input to VTR (Hour Meter information will be reset).

6. SERVO LED INFORMATION

SERVO LED light on Front Panel, when Cylinder and Capstan Servo are locked. In case of SERVO LED does not light on PLAY or REC condition, please check at LED condition on Servo P.C.Board for confirm the which Servo is faulty.
There are condition LED on the SERVO Board (F1) as follows.


CAP SERVO
CYL SERVO
SYSCON
COMMUNICATION
SERVO Board (F1)
Component Side
Front Side

- The LED nearest to front side light up, when Syscon CPU and SERVO CPU communication is correct.
- The center LED light up, when the cylinder servo is locked.
- The LED nearest to the Jack Board light up, when the capstan servo is locked.

Note: In case of capstan servo does not locked, please use function of Tracking mode selection on Service menu for confirm which servo is fault ATF or CTL.

7. Auto Off Error Message

In case of AUTO OFF Error is occurred, error number flashed on counter display of front panel and error message appear on the monitor screen(superimpose on VIDEO 3 OUT).

The number of below table indicates as priority display of error number and message, when some error occurred at the same time. Error message indicates under error number on below table.

No.	Display (20 characters)	Contents	VTR Operation	Detection Place	Reset Condition
1	Normal (EJECT)	After a cassette insertion, if cassette does not down within 6 seconds, VTR goes to EJECT mode.	EJECT	SYSCON	---
	E-29 (FRONT LOAD MOTOR)	After EJECT mode, if a cassette does not up within 6 seconds, error number flashed.	STOP	SYSCON	POWER OFF → ON
2	Normal (EJECT)	Loading is not completed within 6 seconds, VTR goes to EJECT mode (unloading mode).	EJECT	SYSCON	---
	E-31 (LOADING MOTOR)	When unloading is not completed within 6 seconds, error number flashed.	STOP	SYSCON	POWER OFF → ON
3	E-35 (SERVO CONTORL ERR)	If servo CPU does not respond within 1 seconds, error number flashed. <Actual Judgment> System control circuit sends COMM_TEST signal to Servo circuit and Servo circuit returns COMM_TEST_RET signal. If this signal is not returned within 1 seconds, "AUTO OFF" process is produced and Servo is reset for 50 ms.	STOP	SYSCON	POWER OFF → ON
4	E-36 (SERVO ERROR)	If only the Servo CPU perform reset operation by momentary power off, "AUTO OFF" occurred and error number flashed.	STOP	SYSCON	POWER OFF → ON

5	E-37 (SERVO COMM ERROR)	If Servo CPU does not response to command from SYSCON CPU during 10 second error number flashed.	STOP	SYSCON	POWER OFF → ON
6	E-51 (FRONT LOAD ERROR)	If Supply Reel Table rotated over time at Tape big./ end detected operation during Front loading, error number flashed.	STOP	SERVO	POWER OFF → ON
7	E-52 (W-UP REEL NOT ROTA)	When Capstan shaft send the tape 3 cm, Take-up reel FG count number is less than regulation value.	STOP	SERVO	POWER OFF → ON
8	E-53 (WINDUP ERROR)	Compare the tape movement between take up and supply reel, and if the difference is more than 2 cm, goes to "AUTO OFF" mode.	STOP	SERVO	POWER OFF → ON
10	E-55 (UNLOAD ERROR)	Reel does not wind the tape in the unloading mode. Reel FG is counted in each mechanism mode.	STOP	SERVO	POWER OFF → ON
12	E-57 (S-FF/REW TIME/OVER)	Reel operation does not finish at Tape beginning and end position.	STOP	SERVO	POWER OFF → ON
14	E-59 (DRUM ROTATE TOO SLOW)	Cylinder rotary speed is too slow. In the cylinder on mode, cylinder PG interval is more than 1.5 ms for 5 seconds or cylinder PG is not detected for 1 seconds.	STOP	SERVO	POWER OFF → ON
15	E-60 (DRUM ROTAE TOO FAST)	Cylinder rotary speed is too fast. PG interval is less than 3 ms for 2 seconds.	STOP	SERVO	POWER OFF → ON
16	E-61 (CAP ROTATE TOO SLOW)	Capstan rotary speed is too slow. In the capstan on mode, capstan FG is not detected for 5 seconds.	STOP	SERVO	POWER OFF → ON

19	E-64 (S REEL ROTATE TOO FAST)	S-REEL Rotation speed became too high more than 2 seconds.	STOP	SERVO	POWER OFF → ON
22	E-67 (T-REEL ROTA TOO FAST)	T-REEL Rotation speed became too high more than 2 seconds.	STOP	SERVO	POWER OFF → ON
24	E-69 (T-REEL TORQUE ERROR)	In the Reel mode, exceed reel torque, caused by tape run over load, is detected. If the T Reel Torque error voltage is more than 0.5V continuously, goes to Auto Off mode within 105 seconds.	STOP	SERVO	POWER OFF → ON
25	E-70 (S-REEL TORQUE ERROR)	In the Reel mode, exceed reel torque, caused by tape run over load, is detected. If the S Reel Torque error voltage is more than 0.5V continuously, goes to Auto off mode within 105 seconds or Over current flow to Reel Motor more than 0.55A for 2 seconds.	STOP	SERVO	POWER OFF → ON
26	E-71 (CAP TENSION ERROR)	Tension error is detected in capstan mode. Tension sensor voltage (SERVO : TP201) is more than 4.7 V or less than 0.3 V for 2 seconds.	STOP	SERVO	POWER OFF → ON
27	E-72 (REEL TENSION ERROR)	Tension error is detected in Reel mode. Tension sensor voltage (SERVO : TP201) is more than 4.7 V or less than 0.3 V for 2 seconds.	STOP	SERVO	POWER OFF → ON
28	E-73 (REEL DIR UNMATCH)	Take up Reel direction error is detected. Rotation of Take-up reel in opposite direction has continued through complete turn except speed 0 (stop)	STOP	SERVO	POWER OFF → ON

40	E-20 (DEW)	If the condensation has formed inside the VTR, error number flushed, then VTR goes to Eject mode. <Reset Condition> After the cassette is ejected, Drum rotated to dry out the condensation. When condensation has been removed, message is cleaned and normal operation is enable. NOTE: 1) Drum rotated, when the condensation is detected inside the VTR. 2) If the condensation is detected, when insert the cassette to VTR.	EJECT	SYSCON	AFTER CONDEN-SATION is REMOVED Refer to CONTENTS
41	E-FF (E-FF)	The tape beginning and end position are detected simultaneously during loading or after loading completed mode.	STOP	SYSCON	POWER OFF → ON

※ Other Operation.

1) If the Reel Base unit does not move to prescribed position within 3 seconds, Reel Motor goes to stop and the cassette is ejected.

8. AUTO OFF Check Point Table

Message	Check Point	
WINDUP_REEL_NOT_ROTA	Check the loosen of the tape before power on. ● S Reel side before capstan motor → S Reel side is abnormal at REV mode. ● T Reel side after capstan motor → T Reel side is abnormal at FWD mode	1. Check the dead point of Reel Motor in the Reel Torque Offset Adjustment mode (Service menu mode). [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Check Servo board Motor Drive circuit (F1 board) TRH±1,2,3, SHR±1,2,3--- Fig. 1 TRM1,2,3, SRM1,2,3 --Fig. 2 ● Check Reel Motor Replace Reel Motor 2. Check Reel Brake Solenoid (Check the Reel Brake is smoothly released in the Reel Torque Offset Adjustment mode.) [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Check System Control board (F2 board) Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3 3. Grease is not attached on the tape pass.

WINDUP_ERROR		1. Check the tension is normal. ● Check Spring power --- Refer to the specification of Tension Regulator Spring Adjustment ● Check Tension Voltage --- Refer to the Tension Voltage Check 1 Refer to the Tension Control Check. 2. Check the FG waveform is normal. Capstan FG --- Refer to Capstan FG Check 1 and Capstan FG Check 2 Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 3. Check Reel Offset Torque --- Refer to Motor Torque Offset Adjustment. 4. Check Tape Pass Load 5. Check Tape Damage

UNLOAD_ERROR	Check the tape is surely wound.	1. Check dead point of Reel Motor in the Reel Torque Offset Adjustment mode (Service menu mode). [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board Check Motor Drive circuit (F1 board) TRH±1,2,3, SHR±1,2,3--- Fig. 1 TRM1,2,3, SRM1,2,3 --Fig. 2 ● Check Reel Motor Replace Reel Motor. 2. Check Reel Torque Offset [In case of abnormal condition] Re-adjustment --- Motor Torque Offset Adjustment 3. Check Reel Brake Solenoid (Check the Reel Brake is smoothly released in the Reel Torque Offset Adjustment mode.) [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Check System Control board (F2 board) Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3 4. Check Reel FG Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2

S_FF/REW_TIMEOVER	Check the problem occurred at tape beginning or tape, or other portion.	1. Check Reel FG Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Reel FG Sensor, Reel Replacement ● Check F1 board. 2. Check transparent tape detection. [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Replace sensors. ● Check F2 board. 3. Check the tape is not bent.
S_REEL_ROTA_TOO_FAST		1. Check Reel FG waveform. Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Reel FG Sensor, Reel Replacement ● Check F1 board. 2. Check Reel Drive circuit. TP450 and TP451 on F1 board --- less than 0.4 V

T_REEL_ROTA_TOO_FAST		1. Check Reel FG waveform. Reel FG --- Refer to Reel FG Check 1 and Reel FG Check 2 [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Reel FG Sensor, Reel Replacement ● Check F1 board. 2. Check Reel Drive circuit. TP450 and TP451 on F1 board --- less than 0.4 V
T_REEL_TORQUE_ERROR		1. Check Reel Torque Offset [In case of abnormal condition] Re-adjustment --- Motor Torque Offset Adjustment 2. Check Reel Brake Solenoid (Check the Reel Brake is smoothly released in the Reel Torque Offset Adjustment mode.) [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Check System Control board (F2 board) Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3

S_REEL_TORQUE_ERROR		1. Check Reel Torque Offset [In case of abnormal condition] Re-adjustment --- Motor Torque Offset Adjustment 2. Check Reel Brake Solenoid (Check the Reel Brake is smoothly released in the Reel Torque Offset Adjustment mode.) [In case of abnormal condition] ● Check loosen of connector Mech I/F board, Mother board ● Check System Control board (F2 board) Solenoid Drive circuit S_BRAKE_N, T_BRAKE_N --- Fig. 3
DRUM_ROTATE_TOO_FAST		Check Cylinder PG Check Cylinder FG [In case of fast rotation] ● Check Cylinder flexible cable, connectors. ● Check CYL_ERR (TP400) voltage. Normal Rotation : TP400 = about 2.5 V During Full Acceleration : TP400 = 0 V EJECT mode : TP400 = 2.5 V Servo REF (IC207-2 pin) = about 2.5 V fix If above voltage is incorrect, servo board is not correct. [In case of FG is correct and PG is incorrect] PG signal flow is incorrect. (Cylinder >> Mech I/F >> Mother >> Servo)

DRUM_ROTATE_TOO_SLOW	Check that the tape is stick with the Cylinder. Check that the tape is stick with a part of the tape pass and it causes the high tension. In this case tape may brake the Cylinder rotation.	Check Cylinder PG Check Cylinder FG [In case of FG is correct and PG is incorrect] PG signal flow is incorrect. (Cylinder >> Mech I/F >> Mother >> Servo) [In case of both PG and FG are incorrect (Cylinder rotation is actually slow.)] (1) Check Cylinder Unit. Rotate the Cylinder in EJECT or UNLOAD condition. Check that the Cylinder smoothly rotate. If it is not smooth, the Cylinder unit is incorrect. (2) Check the rotary speed detection. Check that the CYL_FG_PRE (TP231) shows the pulse which is 4 pulses per rotation and the duty is 50 %, 0V/5V. If it is incorrect, FG signal flow is incorrect. (3) Check the Servo CPU outputs acceleration command. ● Check that acceleration voltage (less than 2.5 V) is output at CYL_ERR (TP400). ● Check that drive on signal which is 5 V at IC400-4 pin. when it is 2.5 V, it is OFF mode. (4) Check the Reference voltage. Check that SERVO_REF (IC207-2 pin) voltage is about 2.5 V. -→ If (3) or (4) is incorrect, surround circuit of CPU, D/A is incorrect. (5) Check that Power Supply voltage. Check that Drive IC voltage (VCC 5V : IC400-27 pin) and Motor Drive voltage CYL_VM (Q400 -1 or 8 pin). The VM is positive voltage during Cylinder ON. → If it is correct, between Motor Drive and Cylinder is incorrect. Check connectors of Cylinder, Mech I/F and Mother.

CAP_ROTATE_TOO_SLOW	Check the tape is not stacked with the tape pass and tension is not high. Check the mechanical load of Capstan.	Refer to Capstan FG check (1) and (2). ● In case of the Capstan Motor overrunning even the message is too slow. The FG signal which is used to detect capstan speed is not supplied to the SERVO CPU. Check the frequency at CAP_FG1,2 (TP80, 82) is correspond with the rotary speed. (about 1.58 kHz, 0/5 V in REC/PB mode). Check the connectors of Capstan, Mech I/F and Mother. ● In case of Capstan does not rotate. (1) Check the Servo CPU supplies the acceleration command. Check the SERVO_REF (IC207-2 pin) is about 2.5V. Check the CAP_ERR (TP401) is acceleration command. It is below than SERVO_REF voltage. If the capstan does not rotate, the CAP_ERR voltage should be 0 V. Check Drive ON signal (IC401 - 4 pin) i s 5 V (rev) and 0 V (fwd), 2.5 V (OFF). (2) Check the Power Supply voltage. Check the Drive IC power voltage (VCC 5V : IC401 - 27 pin). Check Motor Drive voltage CAP_VM (Q402 - 1 or 8 pin). (3) Check the Drive signal is supplied to Capstan motor. Check the connectors of Capstan, Mech I/F and Mother. If above conditions are correct, motor or drive circuit is incorrect.

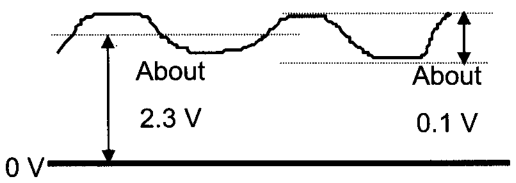
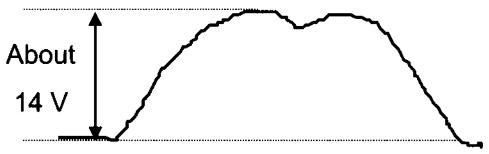
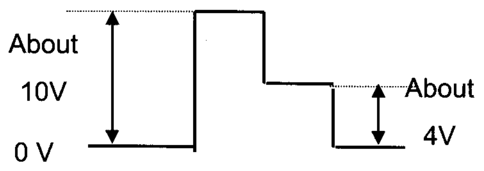
Fig 1 REEL Position Detect		Rotate the REEL motor in EJECT mode and check the following waveform. F1 board P2 - 10a TRH1+ 10b TRH1- 10c TRH2+ 11a TRH2- 11b TRH3+ 11c TRH3- 12c SRH1+ 13a SRH1- 13b SRH2+ 13c SRH2- 14a SRH3+ 14b SRH3-
Fig2 REEL Drive Waveform		Select T or S_REEL_TRQ on the Service menu(Servo Adjust) and rotate the REEL and confirm the following waveform is like Fig. 2. F1 board P2-23b TRM3 23c TRM1 24c TRM2 25b SRM3 25c SRM1 26c SRM2

Fig. 3 Brake Solenoid		Select T or S_REEL_TRQ on the Service menu(Servo Adjust) and check the waveform like Fig. 3 appears at following positions at Brake is released. ● T_REEL_TRQ selection F2 board P2 -25C T_BRAKE_N ● S_REEL_TRQ selection F2 board P2 -23C S_BRAKE_N

SECTION 3

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1. Maintenance

1-1.Maintenance Part Chart

No	Name	Part Number	Part Using Hours (Unit hours)					
			2,000	4,000	6,000	8,000	10,000	12,000
.	Tape Path Cleaning		△Clean the Tape Path at each 500 hours					
1	Cylinder Unit	VEG1498	●	●	●	●	●	◎
2	Cleaning Arm Unit	VXL2924	●	●	●	●	●	◎
3	Pinch Arm Unit	VXL2835		●■		●■		◎
4	S Reel Motor Unit	VEM0686			●			◎
5	T Reel Motor Unit	VEM0687			●			◎
6	Thrust Screw Unit	VXQ0556			●▲			◎
7	Front Loading Unit	VXA6070						●
8	Mech. Chassis Unit	VXY1431Z1						●
9	Fan Motor	VRF0190	Replace the Fan Motor at each 10,000 hours ***Operation Time***					

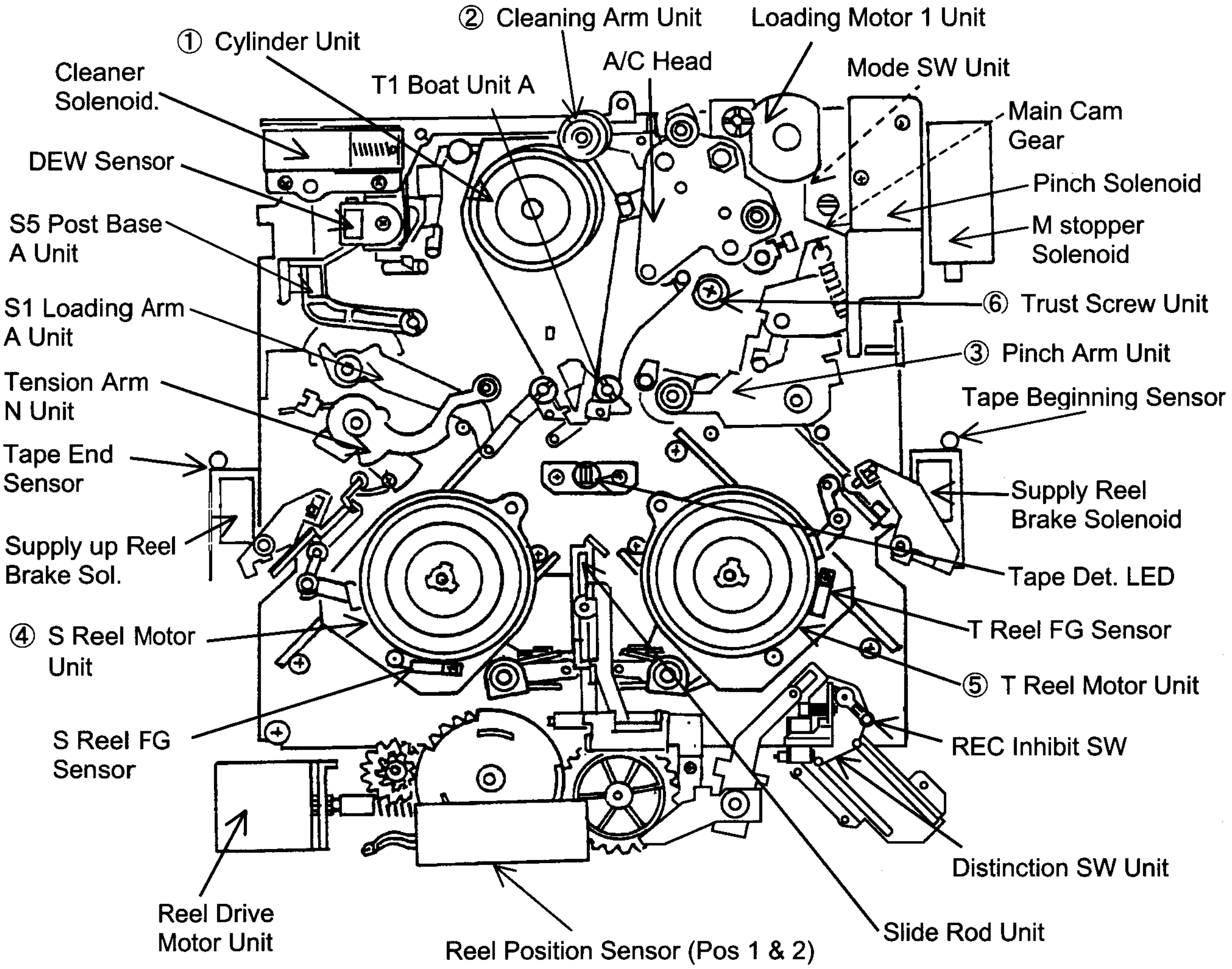
Note: Using hours are based on the head rotation hours.

Using hours are recommendation. It may depended on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee Hours.

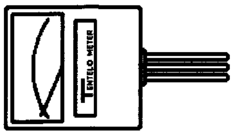
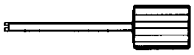
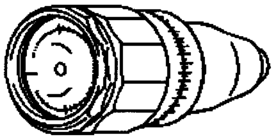
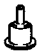
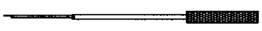
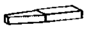
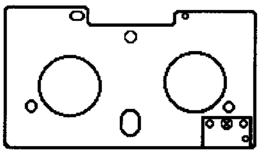
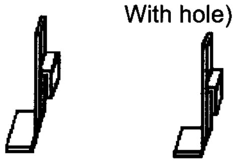
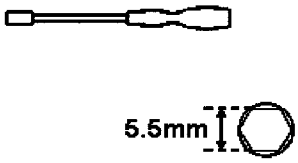
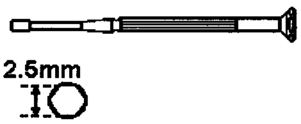
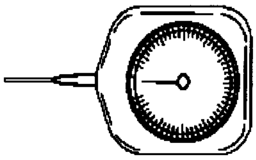
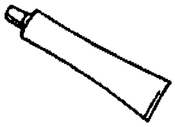
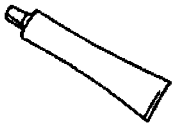
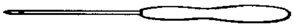
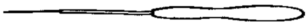
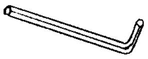
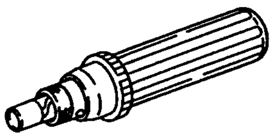
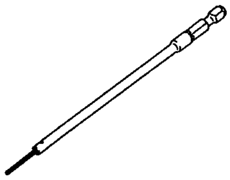
Symbol	Maintenance	Remark
●	Replacement	
◎	Replacement	These parts are included in Mech Chassis Unit
■	Greasing	Wipe the old grease and apply new grease
△	Cleaning	This mark means cleaning is necessary
▲	Lubrication	The lubrication is necessary

1-2. Sensors Layout

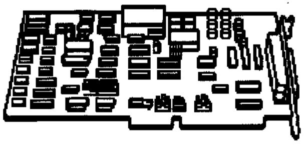

② Cleaning Arm Unit
Loading Motor 1 Unit
① Cylinder Unit
A/C Head
Mode SW Unit
Cleaner Solenoid.
T1 Boat Unit A
Main Cam Gear
DEW Sensor
Pinch Solenoid
S5 Post Base A Unit
M stopper Solenoid
⑥ Trust Screw Unit
S1 Loading Arm A Unit
③ Pinch Arm Unit
Tension Arm N Unit
Tape Beginning Sensor
Tape End Sensor
Supply Reel Brake Solenoid
Supply up Reel Brake Sol.
Tape Det. LED
④ S Reel Motor Unit
T Reel FG Sensor
⑤ T Reel Motor Unit
S Reel FG Sensor
REC Inhibit SW
Distinction SW Unit
Reel Drive Motor Unit
Slide Rod Unit
Reel Position Sensor (Pos 1 & 2)

1-3. Servicing Fixtures & Tools

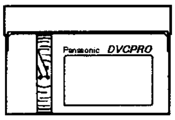
No.	Part No.	Name	AJ-D850	Remark
1	VFK1145	Back Tension Meter (T2-M30-P)	O	
2	VFK1149	Post Driver	O	
3	VFK71	Dial Torque Gauge (150 g)	O	
4	VFK1191	Dial Torque Gauge (45g)	O	
5	VFK1152	Dial Torque Gauge Adapter	O	
6	VFK0357	Eccentric Screwdriver (1.5)	O	
7	VFK1154	Post Height Fixture	O	
8	VFK1153	Mech. Neutral Plate(Post)	O	
9	VFK0906	Oil	O	
10	VFK1155	REV Position Tool (Silver color)	O	
11	VFK1156	PLAY Position Tool (Black color)	O	
12	VFK1208	Neutral Position tool (Black with hole)	O	
13	VFK1150	Nut Driver (5.5mm)	O	
14	VFK1151	Nut Driver (2.5mm)	O	
15	VFK1188	Dial Tension Gauge (30g)	O	
16	VFK0948A	Check Light	O	
17	VFK0749	Froiral Grease (White: for plastic part)	O	
18	M0R265	Morlytone Grease (Black: for metal part)	O	
19	VFK1146	Philips Driver (00-75)	O	
20	VFK1147	Philips Driver (00-100)	O	
21	VFK1148	Hex. Driver (1.5mm)	O	
22	VFK1178	Hex. Driver (0.89mm)	O	
23	VFK1179	Hex. Driver (0.71mm)	O	
24	VFK1190	Hex. Wrench (1.5mm)	O	
25	VFK1209	Torque Driver(0.4-3Kg)	O	
26	VFK1375	Post Axis Driver(1.5mm)	O	or VFK0912
27	VFK1300	A/D Converter Board (DAQ-12 Quatech)	O	Purchase Locally
28	VFM3580KM	Alignment Tape (No.1)	O	for NTSC
29	VFM3581KM	Alignment Tape (No.2)	O	for NTSC
30	VFM3582KM	Alignment Tape (No.3)	O	
31	VFM3680KM	Alignment Tape (No.1)	O	for PAL
32	VFM3681KM	Alignment Tape (No.2)	O	for PAL
33	VFM3682KM	Alignment Tape (No.3)	O	for PAL
34	VFM3000EDS	Alignment Tape (DV LISTA)	O	
35	VFM3010EDS	Alignment Tape (DV Color Bar)	O	for NTSC
36	VFM3010EDS	Alignment Tape (DV Colour Bar)	O	for PAL
37	AJ-CL12MP	Cleaning Tape	O	
38	VFK1192	Extension Board (F)	O	
39	VFK1193	Extension Board (H)	O	
40	VFK1481	LISTA Software	O	
41	VFK1186	LISTA Cable	O	
42	VFK1160C	RF Adjustment Software	O	
43	VFK1163	RF Adjustment Tape	O	
44	VFK1423	Tape Det. Sensor Cassette	O	
45	VZZ0095	Cleaning Cross	O	
46	VFK0369	Tweezers	O	
47	VFK0371	Radio Prier	O	
48	VFK0372	Cutter Prier	O	
49	VFK0338	Trimmer Adjustment Driver	O	
50	VFK0337	Philips Driver	O	

1 VFK1145 Back Tension Meter  Model:T2-M30-P	2 VFK1149 Post Driver 	3 VFK71 (150g) 4 VFK1191(45g) Dial Torque Gauge 	5 VFK1152 Dial Torque Gauge Adapter 
6 VFK0357(ϕ1.5) Eccentric Screwdriver 	7 VFK1154 Post Height Fixture 	8 VFK1153 Mech Neutral Plate(Post) 	9 VFK0906 OIL (for Thrust Adjustment screw)
10 VFK1155 (REV, Silver) 11 VFK1156 (PLAY, Black) 12 VFK1208(Neutral,Black With hole) 	13 VFK1150 Nut Driver(5.5mm) 	14 VFK1151 Nut Driver(2.5mm) 	15 VFK1188(30g) Dial Tension Gauge 
16 VFK0948A(or purchase locally) Check Light 	17 VFK0749 Froiral Grease(White) (for plastic part) 	18 MOR265 Morlytone Grease(Black) (for metal part) 	19 VFK1146 (00 x 75) 20 VFK1147 (00x 100) Philips Driver 
21 VFK1148(1.5mm) 22 VFK1178(0.89mm) 23 VFK1179(0.71mm) Hex. Driver 	24 VFK1190 (1.5mm) Hex. Wrench 	25 VFK1209 Torque Driver(0.4-3Kg) 	26 VFK1375 or VFK0912 Post Axis Driver(1.5mm) 

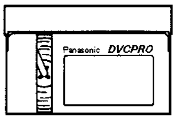
27 VFK1300
A/D Converter Board
(For Quatech. DAQ-12
Purchase Locally)



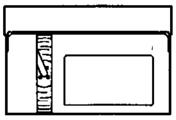
28 VFM3580KM
29 VFM3581KM
30 VFM3582KM
DVC PRO Alignment Tape
(for NTSC)



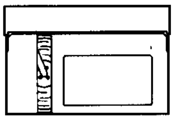
31 VFM3680KM
32 VFM3681KM
33 VFM3682KM
DVC PRO Alignment Tape
(for PAL)



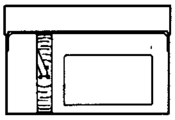
34 VFM3000EDS
DV Alignment Tape
(LISTA)



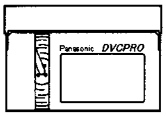
35 VFM3010EDS
DV Alignment Tape
(Color Bar)
(for NTSC)



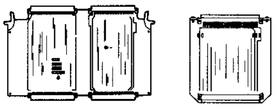
36 VFM3110EDS
DV Alignment Tape
(Colour Bar)
(for PAL)



37 AJ-CL12MP
Cleaning Tape

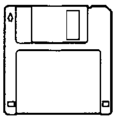


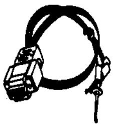
38 VFK1192 --- (F)
39 VFK1193 --- (H)
Extension Board



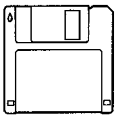
Common for AJ-D750

40 VFK1481
LISTA Software
41 VFK1186
LISTA Cable

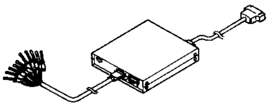




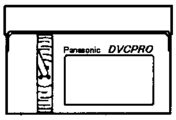
42 VFK1160C
RF Adjustment Soft



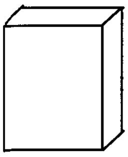
43 VFK1163
RF Adjustment Tool



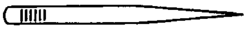
44 VFK1423
Tape Sensor
Cassette (M Cassette)



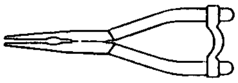
45 VZZ0095
Cleaning Cross



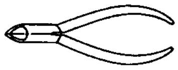
46 VFK0369
Tweezers



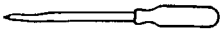
47 VFK0371
Radio Prier



48 VFK0372
Cuntter Prier

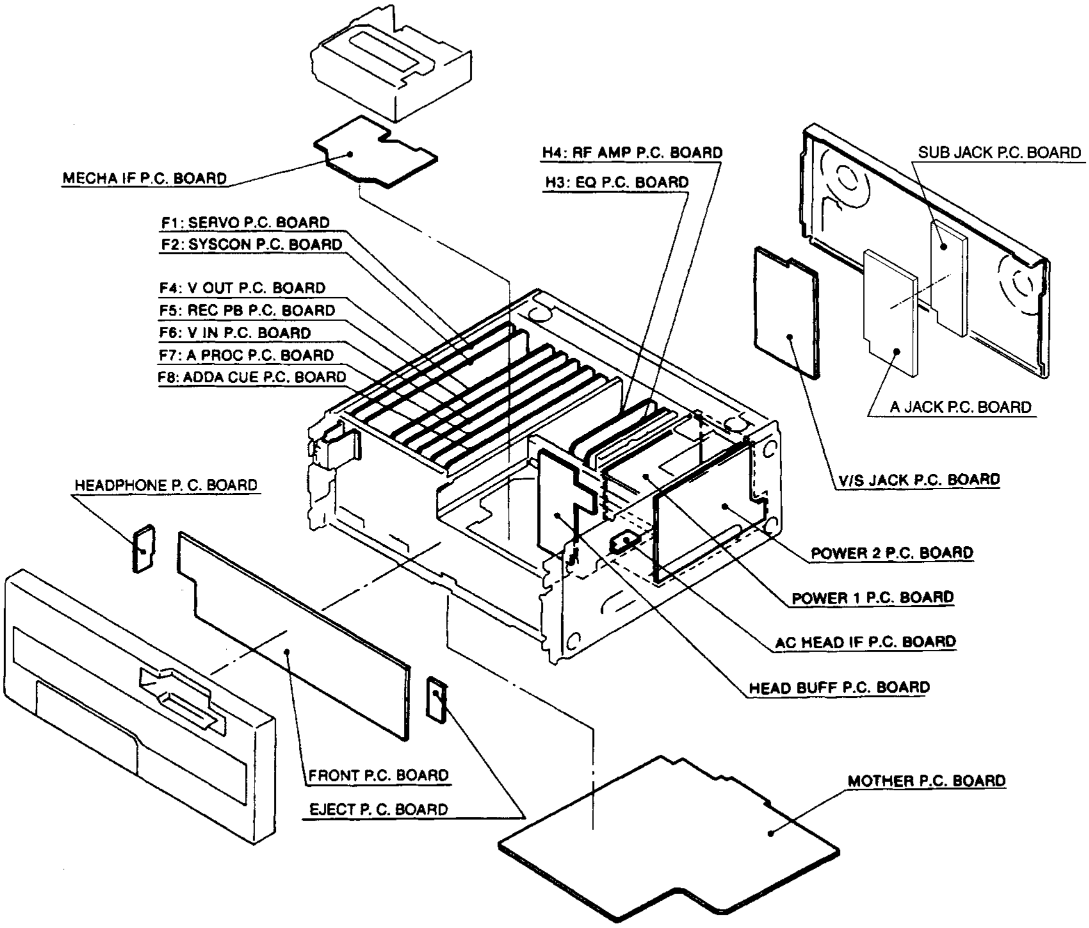


49 VFK0338
Trimmer Adjustment Driver



50 VFK0377
Philips Driver

1-4. Boards Location


MECHA IF P.C. BOARD
H4: RF AMP P.C. BOARD
H3: EQ P.C. BOARD
SUB JACK P.C. BOARD
F1: SERVO P.C. BOARD
F2: SYSCON P.C. BOARD
F4: V OUT P.C. BOARD
F5: REC PB P.C. BOARD
F6: V IN P.C. BOARD
F7: A PROC P.C. BOARD
F8: ADDA CUE P.C. BOARD
A JACK P.C. BOARD
V/S JACK P.C. BOARD
HEADPHONE P. C. BOARD
POWER 2 P.C. BOARD
POWER 1 P.C. BOARD
AC HEAD IF P.C. BOARD
HEAD BUFF P.C. BOARD
FRONT P.C. BOARD
EJECT P. C. BOARD
MOTHER P.C. BOARD

1-5. Alignment Tapes

DVCPRO Alignment Tape

VFM3580KM(NTSC)

Time	Video		PCM		CUE	
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar SMPTE(75%)	Composite Video Level Confirmation	1kHz -20dB	Audio Level Confirmation	1kHz 0VU	CUE Level Confirmation
7:00	Color Bar Full Field(75%)	Component Video Level Confirmation				
14:00	H Sweep	Frequency Response			6kHz 0VU	A/C Head Azimuth
18:00	Bowtie(500k)	Y/C Timing				
22:00	Pulse&Bar	Y/C Timing			-10dB, 1kHz 50Hz～15kHz	Frequency Response
26:00	Area Markers					
30:00						

VFM3581KM(NTSC)

Time(min)	Signal
0:00～20:00	ITI Pattern

VFM3582KM(NTSC)

Time(min)	Signal
0:00～10:00	X Value

VFM3680KM (PAL)

Time	Video		PCM		CUE	
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar 100%	Video Level Confirmation	1kHz -18dBu	Audio Level Confirmation	1kHz Reference level	CUE Level Confirmation
10:00	H Sweep	Frequency Response				
14:00	Area Markers				6kHz Reference level	A/C Head Azimuth
18:00	Bowtie(500k)	Y/C Timing				
22:00	Pulse & Bar	Y/C Timing			1kHz 300Hz~6kHz	Frequency Response
26:00	Multi Pulse	Y/C Timing				
30:00						

VFM3681KM (PAL)

Time (min)	Signal
0:00 ~ 20:00	ITI Pattern

VFM3682KM (PAL)

Time (min)	Signal
0:00 ~ 10:00	X Value

1-6. Recommended Test And Service Equipment

NTSC

Part No.	Name	Remark
TSG130A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	
1750,1760(OP.SC) or 1780R	WFM Monitor	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

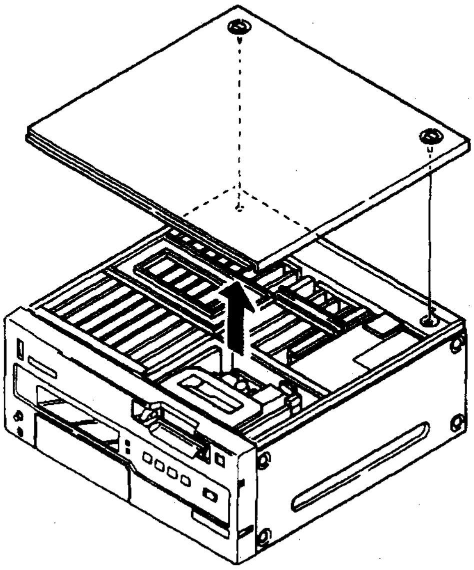
PAL

Part No.	Name	Remark
TSG131A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	
1751,1761(OP.SC) or 1781R	WFM Monitor	TEKTRONIX
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

2. Disassembly Method

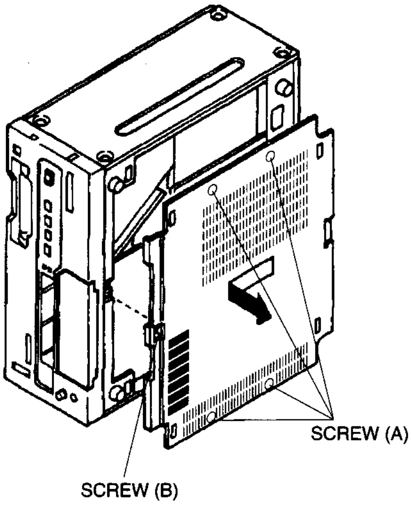
2-1. Removal of Top Panel

1. Loosen the two screws on the top panel.



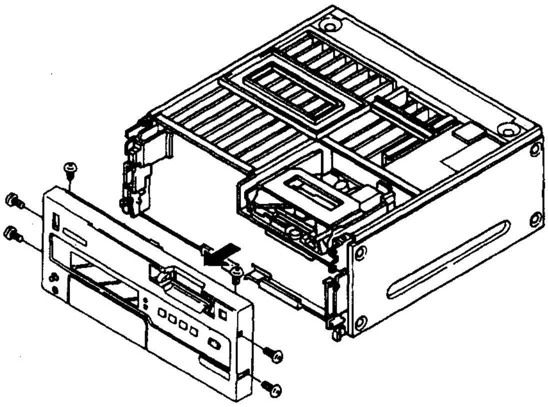
2-2. Removal of Bottom Panel

1. Unscrew the 4 screws (A) and loosen the screw (B).
2. Slide the bottom panel to front direction and remove the Bottom Panel.



2-3. Removal of Front Panel

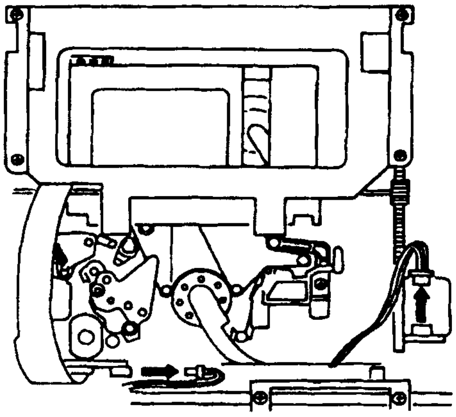
1. Remove the 4 screws at left and right.
2. Remove the 2 screws with Front Panel on the VTR top side.
3. Then draw it and remove the connector and remove the Front Panel.



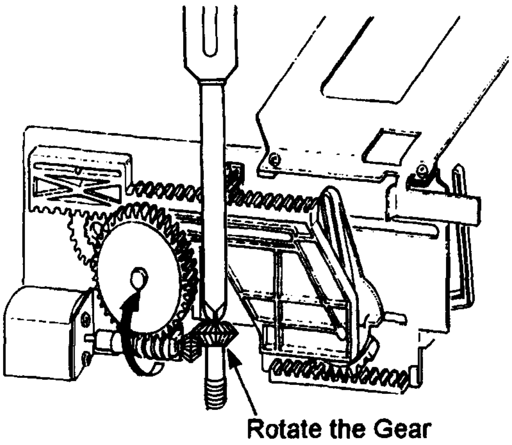
Note: After installation of Front Panel, confirm that the Blinder Panel is moved up and down smoothly by hand. If not, the Blinder Panel is caught by Blinder Panel Opener.

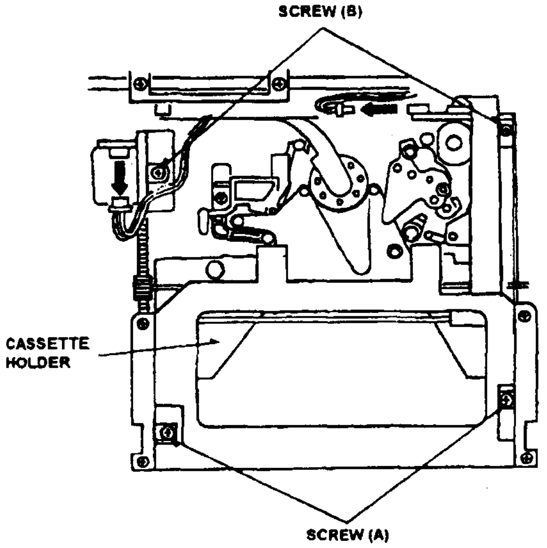
2-4. Removal of Front Loading Unit

1. Remove the 4 screws at left and right.part and the mechanism interconnection board.

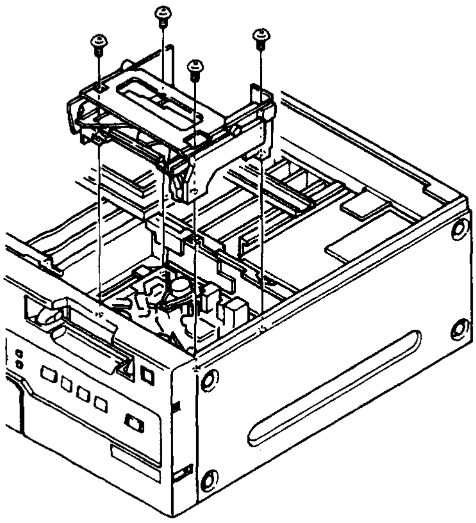


2. Rotate the red plastic screw in front of the worm gear of the cassette down motor counterclockwise by a Philips-head screw-driver pushing the screw to move the Cassette Holder unit the 2 screws (A) can be removal position.


Rotate the Gear

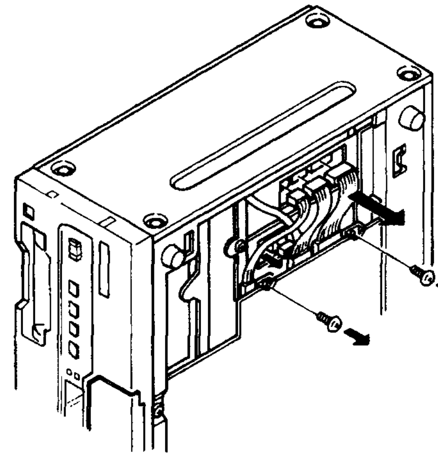

SCREW (B)
CASSETTE HOLDER
SCREW (A)

3. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.

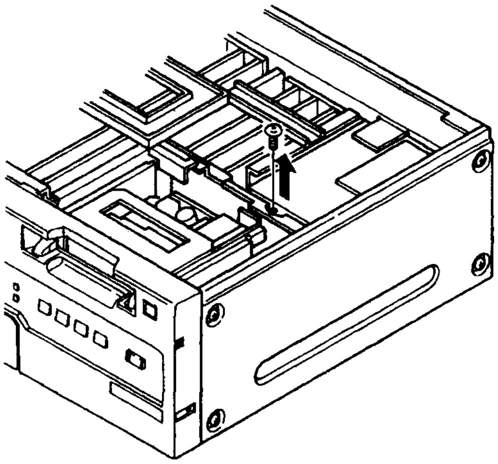


2-5. Removal of Power Supply Unit

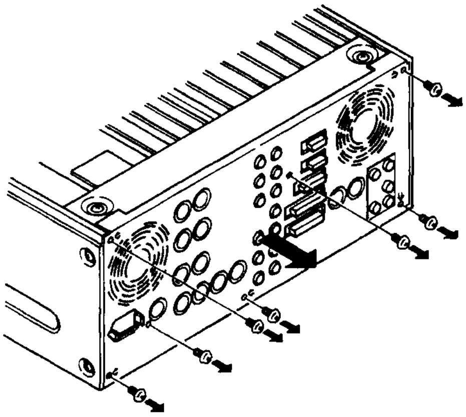
1. Remove 4 connectors with the Power Supply unit on the VTR bottom side.
2. Remove 2 screws with the Power Supply unit on the VTR bottom side.



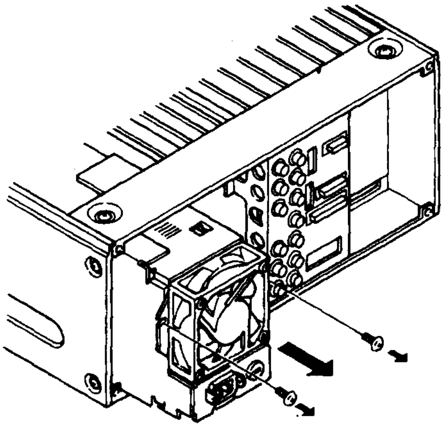
3. Remove one screw with the Power Supply unit on the VTR top side



4. Remove the Rear Jack by removing 7 screws.

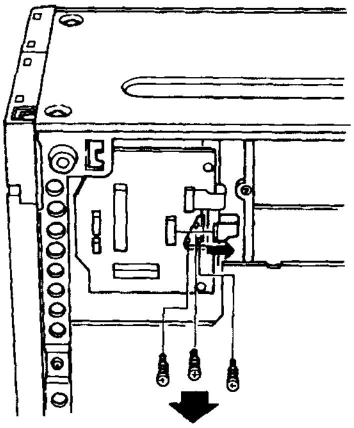


5. Remove 2 screws with the Power Supply unit on the VTR rear side.



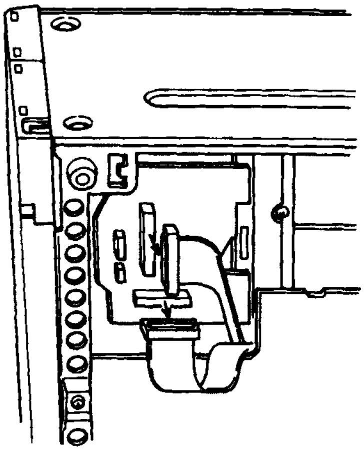
2-6. Removal of Cylinder Unit

1. Disconnect the connector P33 on the Mech. I/F Board. And remove the 3 screws which have spring from the cylinder unit.



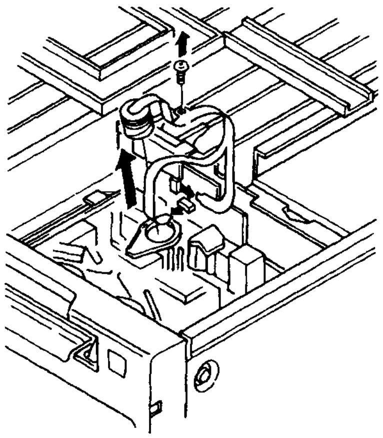
2. Remove the one screw which is fixed with the flexible cable. It attached Cylinder Unit.
3. Disconnect the connector P5003 and P5002 which are connected to Head Buffer board, then remove the cylinder unit without touching any mechanism parts.

Assemble procedures reverse of the disassembly method.

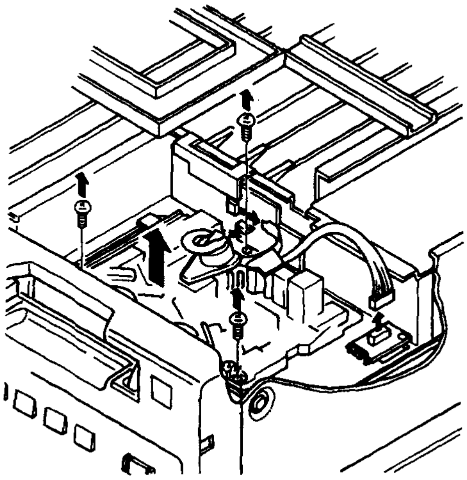


2-7. Removal of Mechanism Unit

1. Remove the Front Loading unit.
2. Remove the Bottom Panel.
3. Disconnect the connector P1 and P2 on the Mech. I/F Board.
4. Disconnect the connector P1 on A/C Head I/F Board for remove the A/C Head cable.

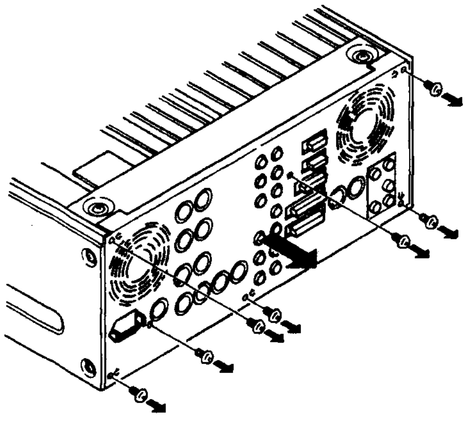


5. Disconnect the connector P5003 and P5002 on the Head Buffer board.
6. Unscrew the 3 screws and remove the mechanism unit.

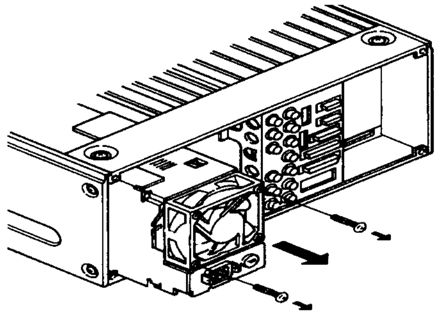


2-8. Removal of Fun Motor Unit

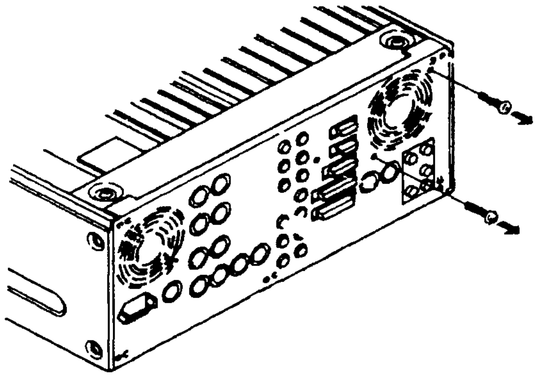
1. Remove the Rear Jack by removing 7 screws.



2. Unscrew the screws and disconnect the connector P14 on the Power 2 P.C.B., then remove the Fan Motor Unit.



3. Unscrew the screws and disconnect the connector P032 on the Mother P.C.B., then remove the Fan Motor Unit.

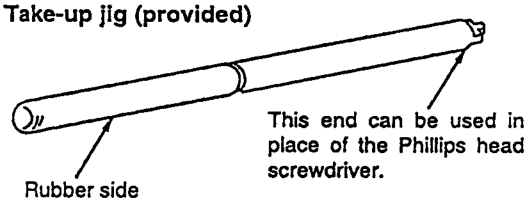


3. Manual Tape Eject

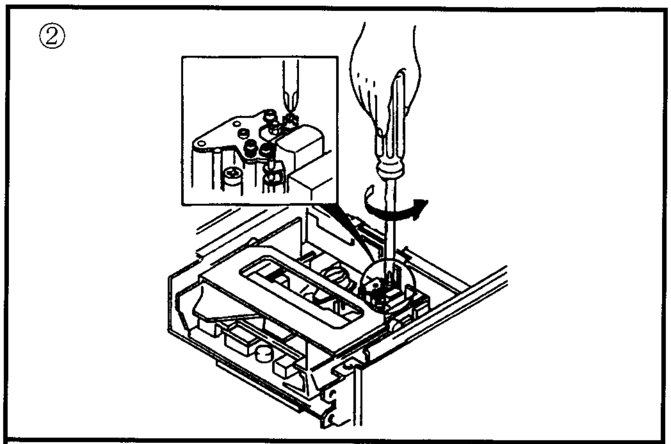
When a tape can not be ejected, because of Power failure or mechanical tape damage, remove the tape manually.

1. Turns power off and remove the top Case Unit.
2. Rotate the red plastic screw by a Phillips - head screwdriver counterclockwise pushing the screw. It needs to rotate about 30 times rotation until starting to move.
3. Since tape slack will develop when the post is unloaded, wind up the supply reel to take up the slack. How to take up the slack (see ③)
   a. Insert the rubber side of the take-up jig into the cassette tape withdrawal opening on the VTR's mechanism side.
   b. Turn the flange part of the supply reel in the direction of take-up to take up the tape slack. (Take care not to damage the tape in the process.)
4. Repeat item 2 and 3 until the tape in wound Completely inside of the cassette.
5. When the tape is completely inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Philips-head screwdriver pusing the screw and remove the cassette cover does not bite the tape when the cover is closed.

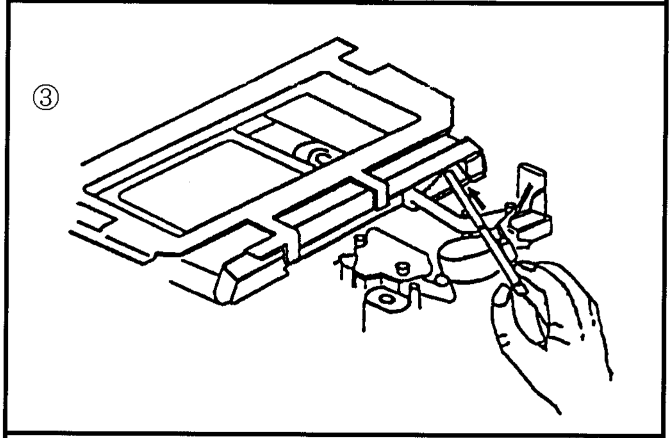
Take-up jig (provided)


This end can be used in place of the Phillips head screwdriver.
Rubber side

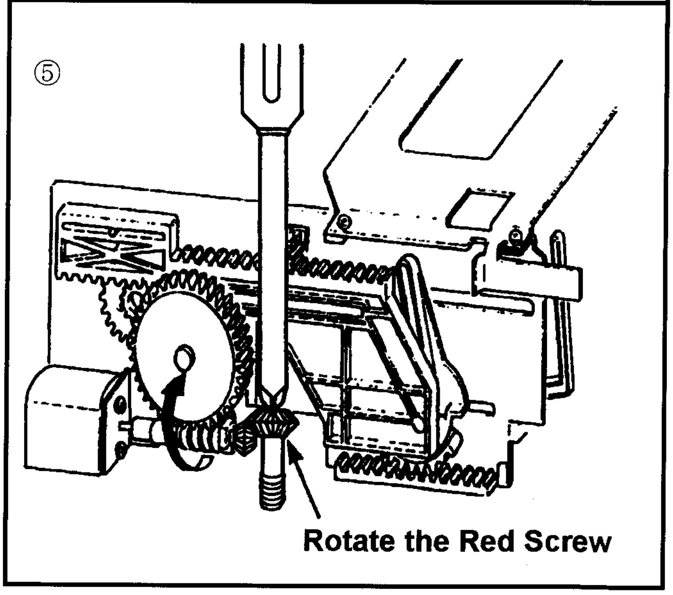
②



③



⑤



Rotate the Red Screw

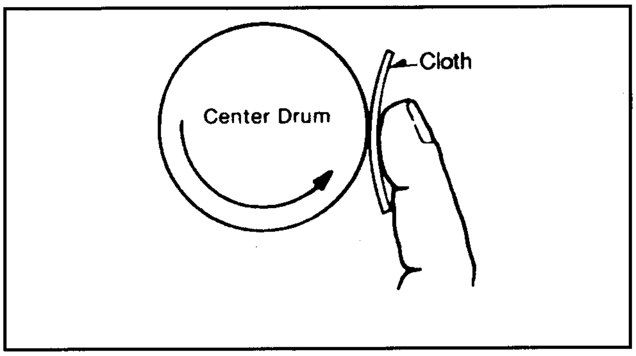
4. Cleaning Procedures

Note: Turns power off during cleaning.

Make sure the power is OFF before cleaning. Use ethanol(more than 99% purity) as cleaning liquid.

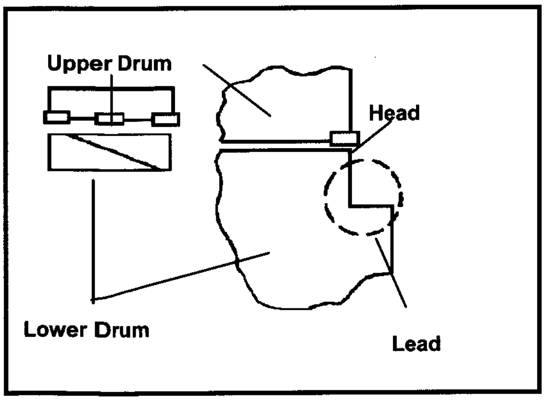
4-1 Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



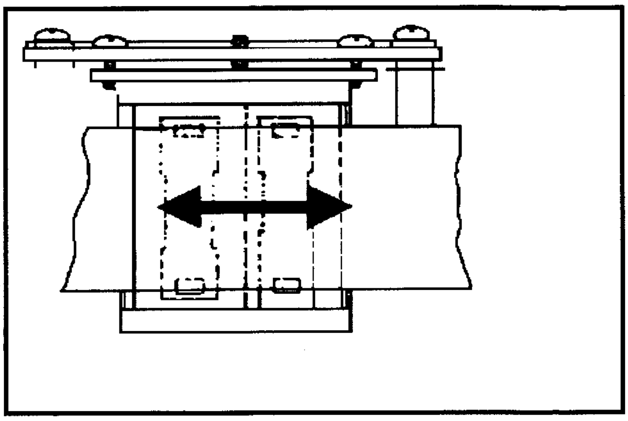
4-2. Cleaning of Drum Lead: (Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



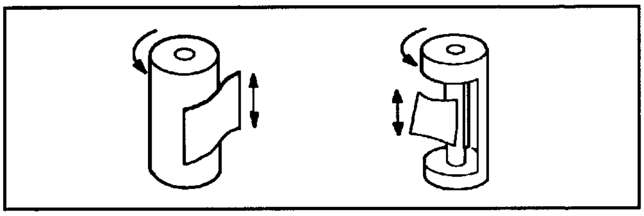
4-3. Cleaning of A/C Head: (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



4-4. Cleaning of Pinch Roller and Capstan: (Weekly)

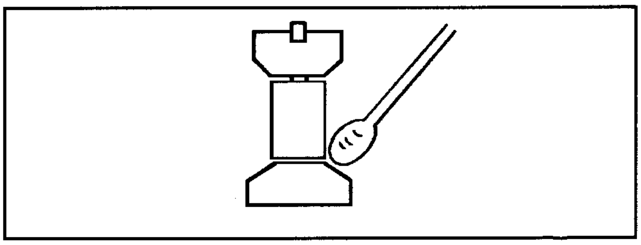
Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



4-5. Cleaning of Post :(Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick . Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.

Note:



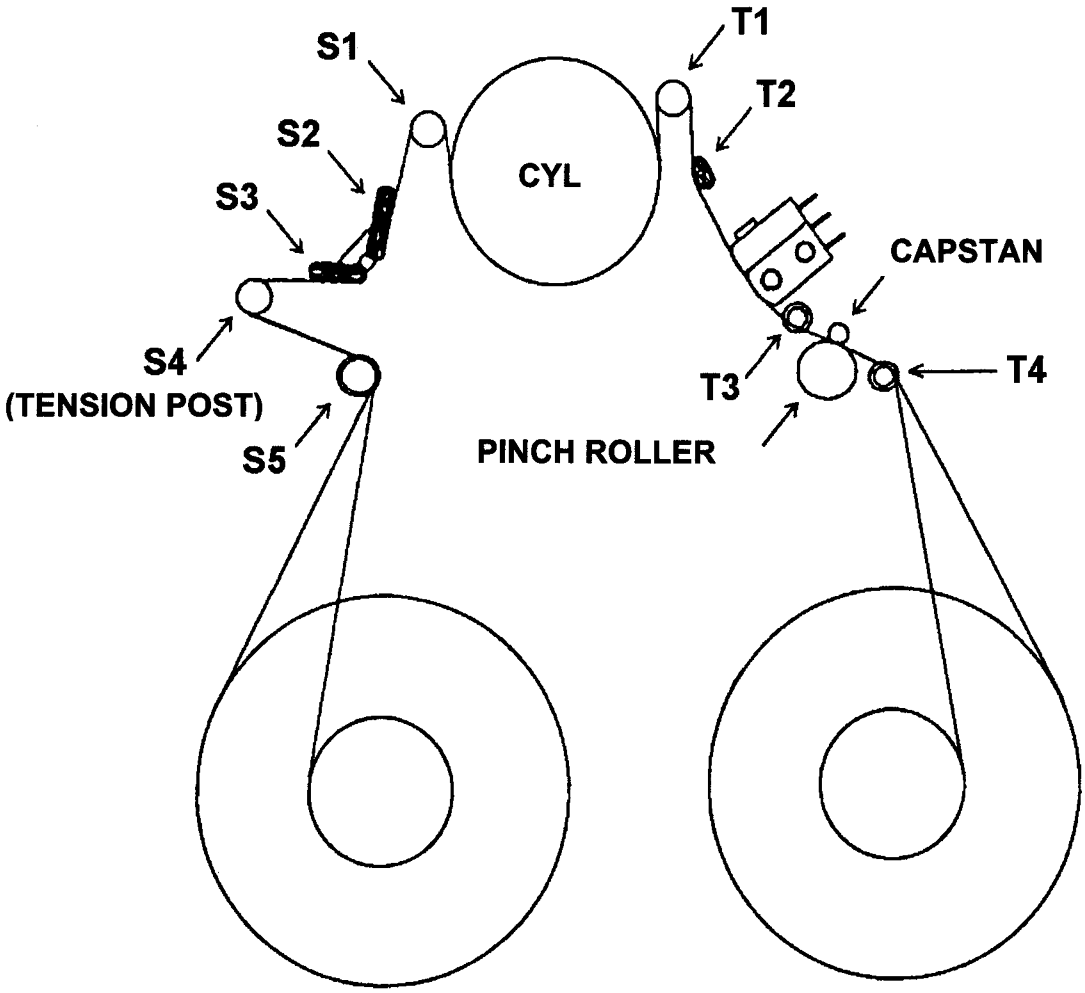
Use the clean cloth for cleaning purpose. Do not use any dirty cloth.

The Cleaning Cloth can be ordered as spare part. The part number indicated as below.

CLEANING CLOTH : VZZ0095

5. Mechanical Adjustment

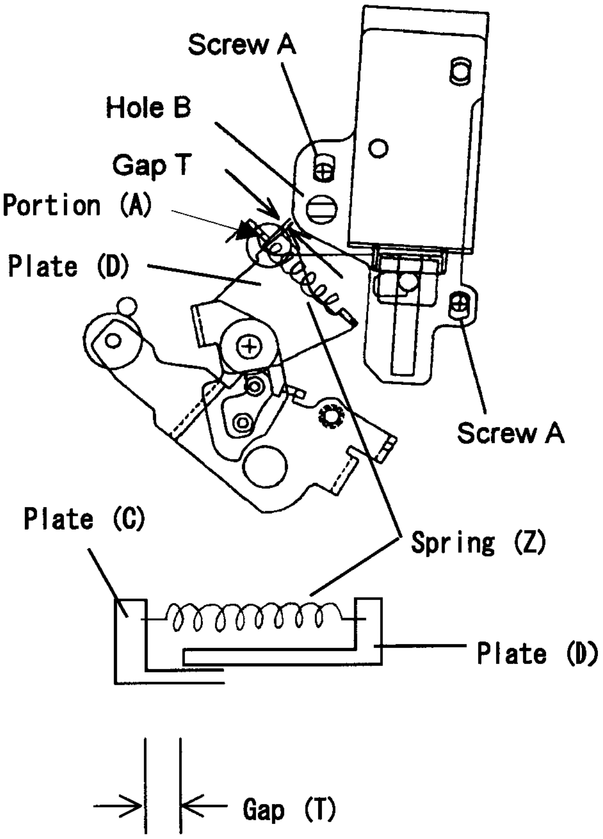
5-1. Name of tape transportation

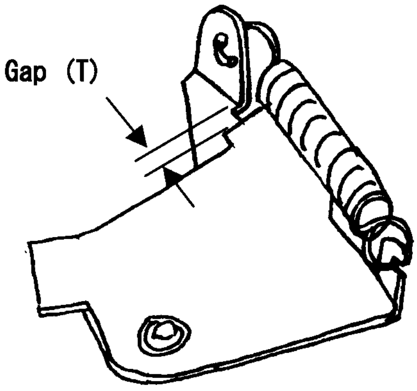

S1
T1
T2
S2
CYL
S3
CAPSTAN
S4
(TENSION POST)
T3
T4
S5
PINCH ROLLER

5-2. Pinch Solenoid Position Adjustment

SPEC.	T = 0.3mm
TEST POINT	Gap T
ADJUSTME	Screw(A), Hole(B)
MODE	EJECT (Power OFF)
TOOL	VFK0357(Eccentric Driver)

1. Confirm the power of condition at VTR.
2. Push the pinch roller by hand to be close to capstan.
3. Push the pinch solenoid by hand so that the pinch roller contacts capstan.
4. Loosen the two screws (A) and adjust the hole (B) by VFK0357 so that gap (T) is within specification.
5. The position for confirm Gap, which is located spring scratch to Plate (C) side.

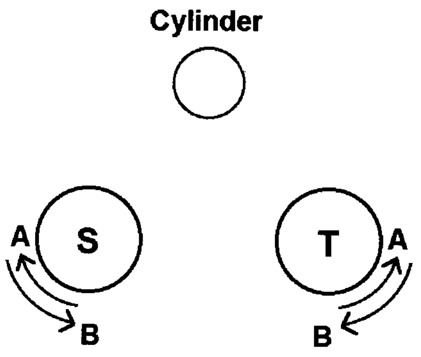

Screw A
Hole B
Gap T
Portion (A)
Plate (D)
Screw A
Plate (C)
Spring (Z)
Plate (D)
Gap (T)



5-3. Main Brake Torque Confirmation

SPEC	Direction A : 40±20g·cm Direction B : 20±15g·cm
TEST POINT	S reel、T Reel
MODE	EJECT（POWER OFF)
TOOL	VFK71(150g)、VFK1191(45g)、VFK1152

1. Remove the Cassette Up Unit.
2. Install the adapter(VFK1152) to the torque gauge (VFK71).
3. Put the torque gauge on S Reel and Turn the torque gauge to direction A until S Reel slips against brake.
4. Confirm the torque is within specification.
5. Put the torque gauge on T Reel and turn the torque gauge to direction A until T Reel slips against brake.
6. Confirm the torque is within specification
7. Install the adapter(VFK1152) to the torque gauge (VFK1191).
8. Put the torque gauge on S Reel and turn the torque gauge to direction B until S Reel slips against brake.
9. Confirm the torque is within specification.
10. Put the torque gauge on T Reel and turn the torque gauge to direction B until T Reel slips against brake.
11. Confirm the torque is within specification.



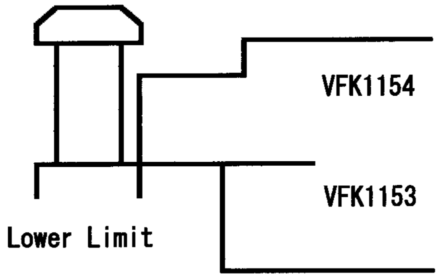
5-4. Post Height Pre-adjustment

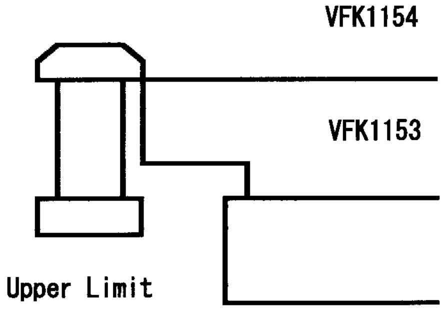
MODE	EJECT（POWER OFF)
TOOL	VFK1153, VFK1154（Flange Tool)

1. Confirm that the Reel Table is located at M Cassette position. If it is not located at M cassette position, turn power on and insert M cassette and eject it.
2. Turn power off and remove the Front Loading Unit. Install the Mech. Neutral Plate (VFK1153).
3. Place the flange tool(VFK1154) on Mech. Neutral Plate and adjust each post height as shown in figure.
4. Adjust the each post to Lower limit by VFK1154 as shown in figure.
5. VFK1149 use for Post height adjustment of S4 and S5 post. VFK1151 use for Post height adjustment of T3 and T4 post.

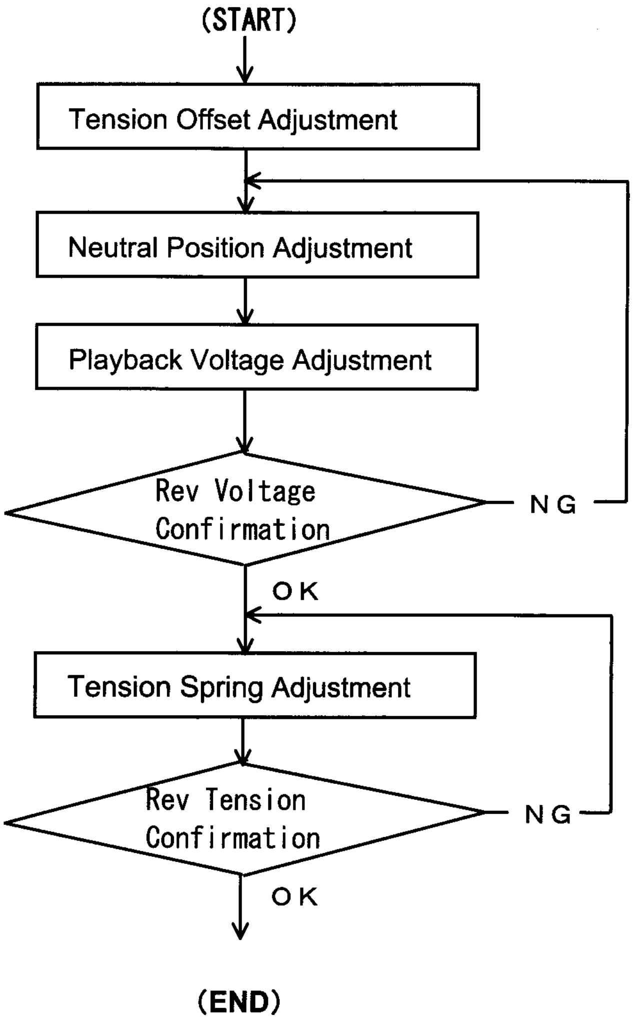
Post	Limit	Post Driver
S5 Post	Lower*	VFK1149
S4 Post	Lower*	VFK1149
T3 Post	Lower	VFK1151(2.5mm Nut Driver)
T4 Post	Lower	VFK1151(2.5mm Nut Driver)

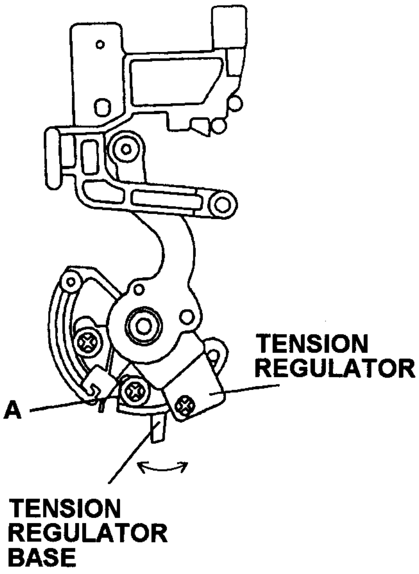
Note: Lower* : Turn S4 and S5 posts 1 round more counterclockwise from lower limit position.





5-5. Tension Adjustment Flowchart


(START)
Tension Offset Adjustment
Neutral Position Adjustment
Playback Voltage Adjustment
Rev Voltage Confirmation
NG
OK
Tension Spring Adjustment
Rev Tension Confirmation
NG
OK
(END)

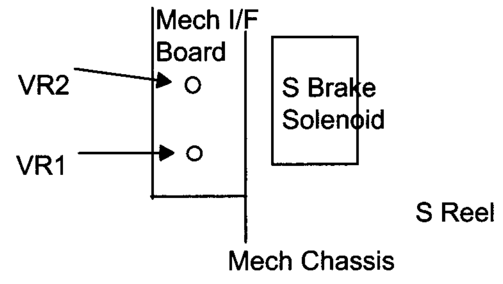

TENSION REGULATOR
A
TENSION REGULATOR BASE

5-6. Tension Offset Adjustment

BOARD	SERVO
SPEC	2.5±0.05V
TEST POINT	TP201(SERVO:F1)
ADJUSTMENT	VR1(MECH I/F)
MODE	EJECT
TOOL	Digital Volt Meter

1. Adjust the VR1 so that the DC voltage at TP201 is within specification.

Left side of S Brake Solenoid


Mech I/F
Board
VR2
VR1
S Brake
Solenoid
S Reel
Mech Chassis

5-7. Tension Arm Neutral Position Adjustment

BOARD	SERVO
SPEC	2.5±0.1V
TEST POINT	TP201(SERVO:F1)
ADJUSTMENT	Base position of Tension Regulator Board
MODE	STOP
TOOL	Digital Volt Meter VFK1208 (Black with hole)

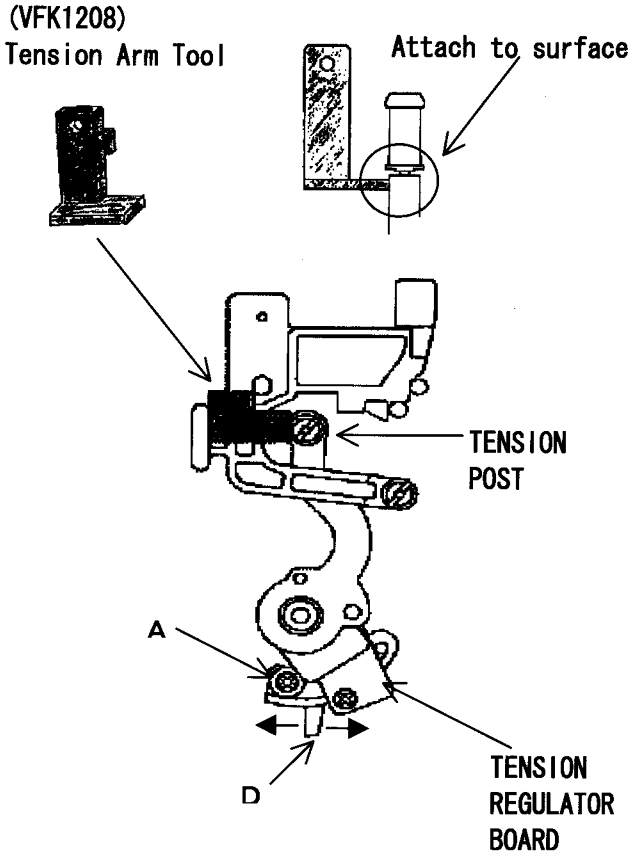
1. Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
2. Disconnect the connector P3 on the Carriage Board of the Front Loading Unit..
3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit.
4. Install the VFK1208(black with hole) as shown in figure
5. Connect the Digital Volt Meter to Test point.
6. Place the unit into the no tape loading mode(Refer to No tape loading mode procedure as mentioned as below.
7. Loosen the screw (A) and move the lever (D) with tweezers for adjust the sensor position so that the DC voltage at TP201 is within specification.

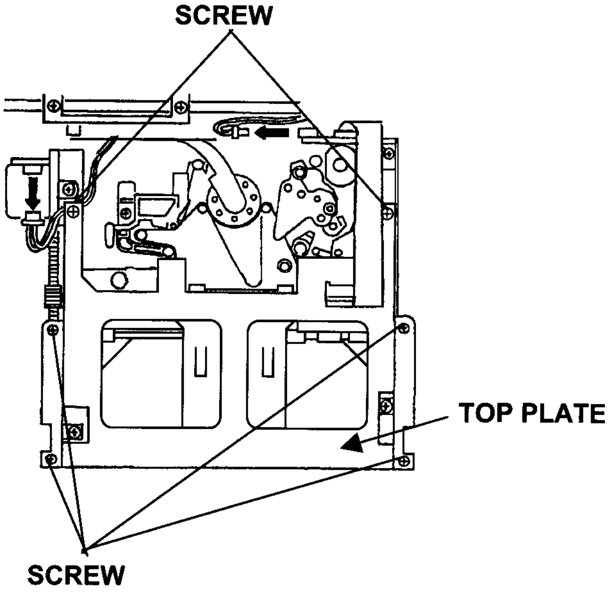
[No tape loading procedures]

Open the SERVO ADJUST menu on the Service Menu. Select the “A02:T REEL TRQ” by cursor key (▼、▲)and press STOP button on the Front Panel, then loading is started. During adjustment, hold the STOP button.

CAUTION: 1. Do not use magnetized tweezers and Screw driver.

2. Do not touch the magnetize Screw driver to S-Reel FG magnet portion, when the lever (D) portion is adjusting.

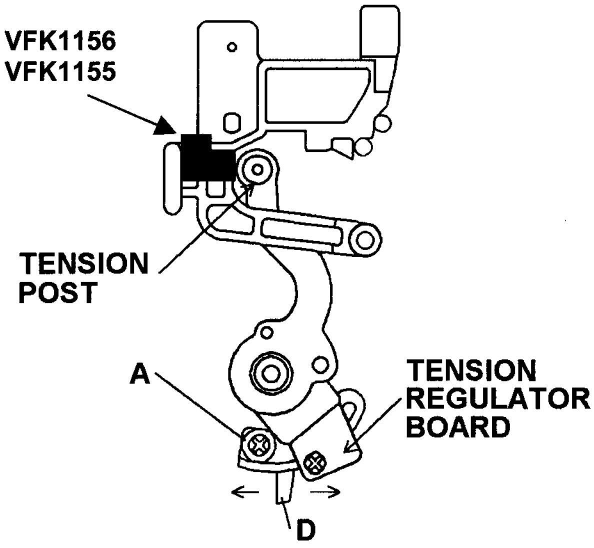


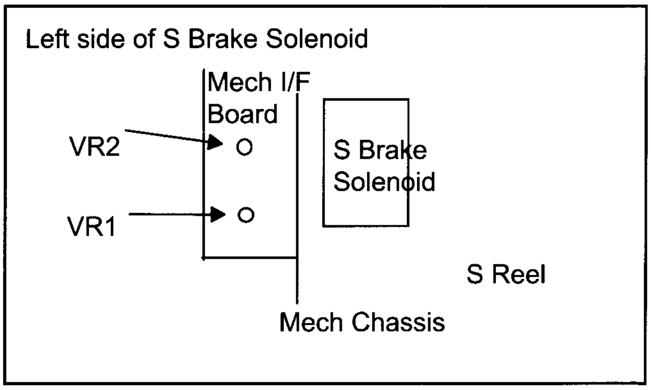


5-8. Tension Arm PLAY and REV voltage adjustment

BOARD	SERVO
SPEC	(PLAY) 3.8±0.05V (REV) 1.2±0.3V
TEST POINT	TP201(SERVO:F1)
ADJUSTMENT	VR2(Mech I/F)
MODE	STOP
TOOL	Digital Volt Meter VFK1156(Black: for PLAY position) VFK1155(Silver: for REV position)

1. Install the VFK1156(black) as shown in figure.
2. Connect the Digital Volt Meter to Test point.
3. Place the unit into no tape loading mode.
4. Adjust the VR2 so that the DC voltage at TP201 is within specification (PLAY).
5. Install the VFK1155 as shown in figure and confirm that the DC voltage at TP201 is within specification (REV).
6. If it out of spec, perform the Neutral Position adjustment again.

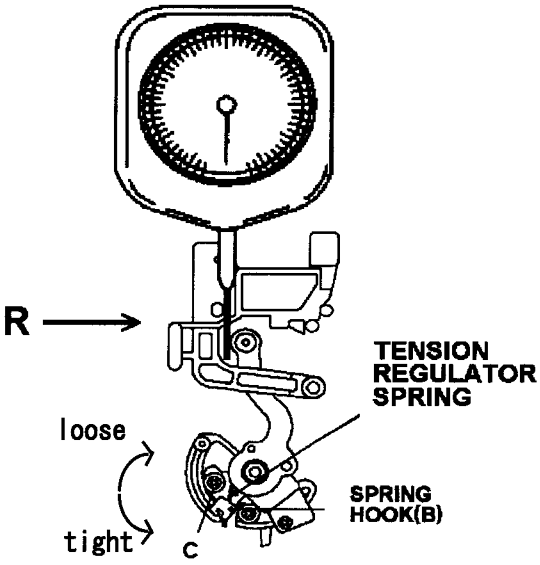

VFK1156
VFK1155
TENSION POST
A
TENSION REGULATOR BOARD
D


Left side of S Brake Solenoid
Mech I/F Board
VR2
VR1
S Brake Solenoid
S Reel
Mech Chassis

5-9. Tension Regulator Spring Adjustment

BOARD	SERVO
SPEC	11±1gf
TEST POINT	TP201(SERVO:F1)
ADJUSTMENT	Tension Regulator Spring hook (B)
MODE	STOP
TOOL	Digital Volt Meter VFK1188(30g Dial Tension Gauge)

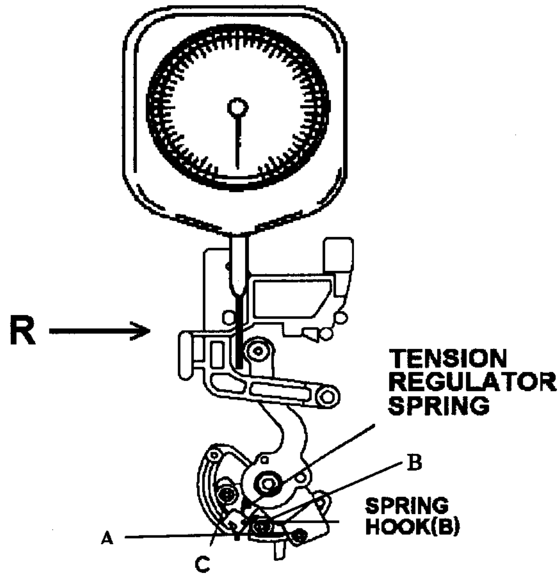
1. Connect the Digital Volt Meter to Test point.
2. Place the VTR into no tape loading mode.
3. Insert the tension gauge to push the tension post to the direction R until the voltage at the TP201 is 3.8V (PLAY position)
4. Loosen the screw (C) and adjust the position of hook (B) so that the indication of gauge is within specification.



5-10. REV Tension Confirmation

BOARD	SERVO
SPEC.	18±2gf
TEST POINT	TP201(SERVO:F1)
MODE	STOP
M.EQ	Digital Volt Meter VFK1188(30g Dial Tension Gauge)

1. Connect the Digital Volt Meter to Test point.
2. Place the VTR into no tape loading mode.
3. Insert the tension gauge to push the tension post to the direction R until the voltage at the TP201 is 1.2V (REV position)
4. Confirm that the indication of gauge is within specification. If not, make the Tension Spring Adjustment again.
5. After finish this adjustment , grew the screw A,B and C . The grew quantity at B is half of A and C.

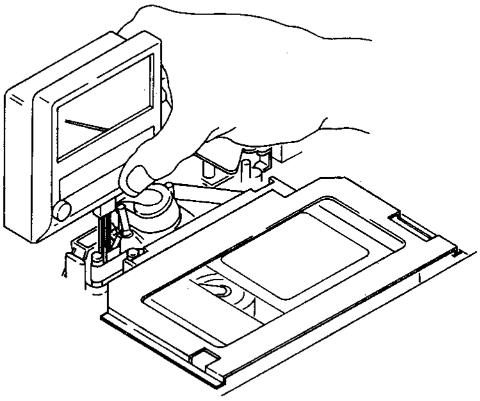


5-11. Tension Confirmation

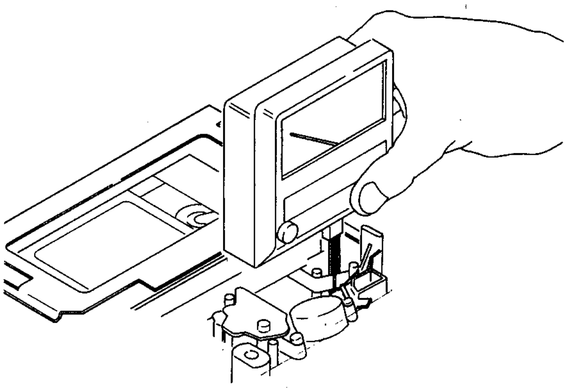
SPEC	(PLAY)6.0±1gf (REV) 9.0±2gf
MODE	PLAY、REV×1
TAPE	63 min M size Blank Tape
TOOL	VFK1145(Tension Meter)

1. Play back beginning portion of the tape.
2. Insert the tension meter between S3 post and S4 post.(Refer to figure).
3. Confirm the tension is within specification.
4. Place the unit in REV mode.
5. Insert the tension meter between S4 post and S5 post.(Refer to figure)
6. Confirm the tension is within specification.

NOTE: Be careful not to give some tape damage.

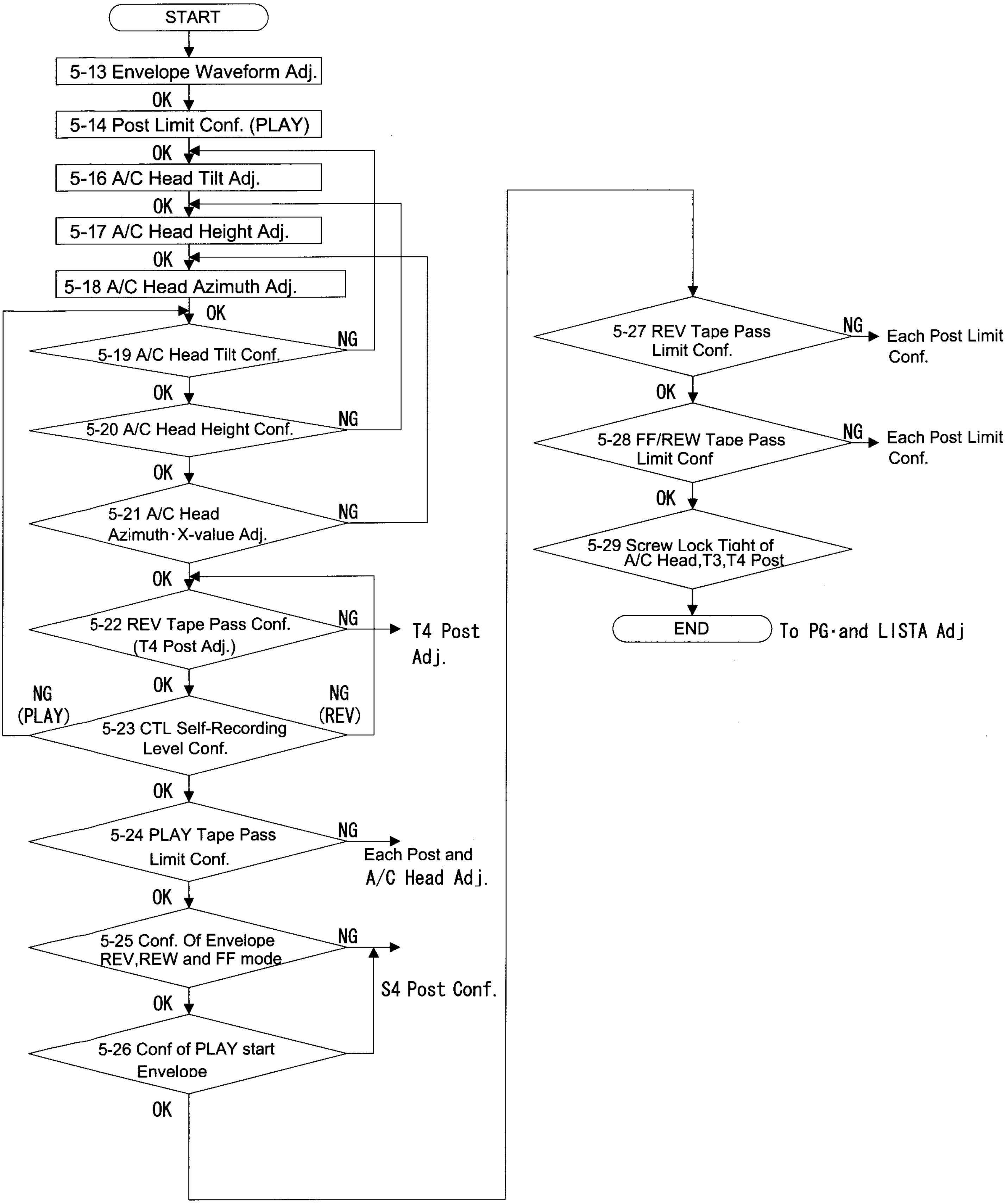


Play Tension



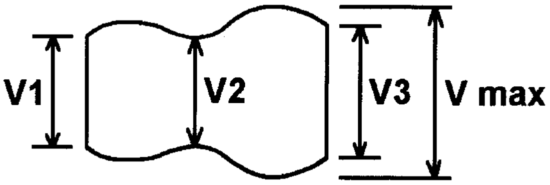
Rev Tension

5-12. Tape Pass Adjustment Procedure


START
5-13 Envelope Waveform Adj.
OK
5-14 Post Limit Conf. (PLAY)
OK
5-16 A/C Head Tilt Adj.
OK
5-17 A/C Head Height Adj.
OK
5-18 A/C Head Azimuth Adj.
OK
5-19 A/C Head Tilt Conf.
NG
OK
5-20 A/C Head Height Conf.
NG
OK
5-21 A/C Head Azimuth·X-value Adj.
NG
OK
5-22 REV Tape Pass Conf. (T4 Post Adj.)
NG
T4 Post Adj.
OK
NG (PLAY)
NG (REV)
5-23 CTL Self-Recording Level Conf.
OK
5-24 PLAY Tape Pass Limit Conf.
NG
Each Post and A/C Head Adj.
OK
5-25 Conf. Of Envelope REV,REW and FF mode
NG
S4 Post Conf.
OK
5-26 Conf of PLAY start Envelope
OK
5-27 REV Tape Pass Limit Conf.
NG
Each Post Limit Conf.
OK
5-28 FF/REW Tape Pass Limit Conf
NG
Each Post Limit Conf.
OK
5-29 Screw Lock Tight of A/C Head,T3,T4 Post
END
To PG·and LISTA Adj

5-13. Envelope Waveform Adjustment

SPEC	V1/Vmax、V2/Vmax、V3/Vmax ≧ 0.8
TEST POINT	TP16:R/P ENV (RF AMP Board:H4) TP1 :TRIG/HSW (RF AMP Board:H4)
ADJUSTMENT	S1、T1 Post Height
MODE	PLAY(ATF)
TAPE	**NTSC:** VFM3580KM **PAL:** VFM3680KM
M.EQ	Oscilloscope
TOOL	VFK1149(Post Driver)



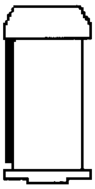
1. Playback the alignment tape.
2. Adjust S1 and T1 post height so that the R/P envelope output is within the specification.
3. When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
4. With order to adjustment, basically adjust T1 post for makes flat at exit side of envelope first and adjust S1 post.
5. After finish this adjustment, unload the tape and load the tape again, then confirm the shape of Envelope waveform does not changed.

5-14 Post Limit Confirmation (PLAY)

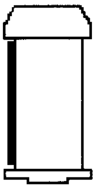
SPEC	Post limit shown in the table No tape curl
MODE	PLAY
TAPE	Blank Tape
TOOL	VFK1149(Post Driver) VFK1151(Nut Driver)

1. Confirm that the tape pass limit follow the as shown as below table and adjust it in case of need.
2. Confirm that the kinds of D、E and F condition do not appeared on the tape as shown in figure.

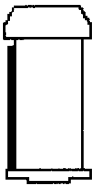
Post	Limit	Adjustment
S5	Lower limit or Free	S5 Post Height
S4	Lower Limit	S4 Post Height
S1	Upper Limit	Envelope waveform
T1	Upper Limit	Envelope waveform
T3	Lower Limit	T3 Post Height
T4	Lower limit or Free	T4 Post Height



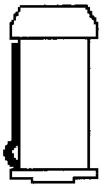
A: UPPER



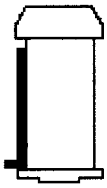
B: FREE



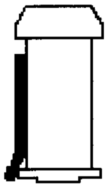
C: LOWER



D: Curl



E: Bend



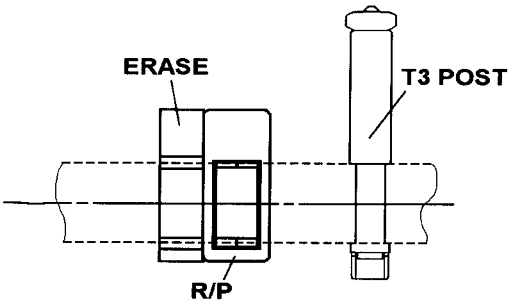
F: Drop

5-15. A/C Head Adjustment Method

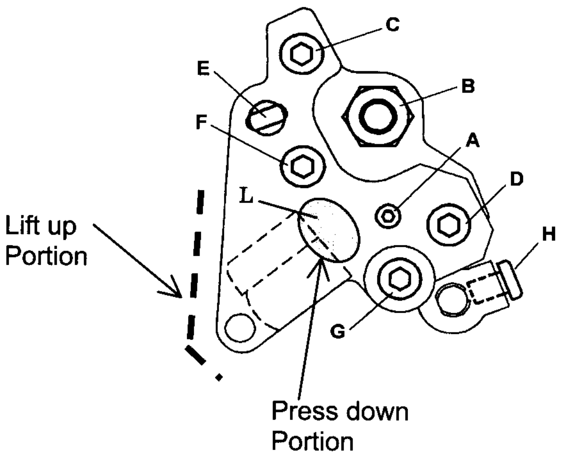
Adjustment Item	SCREW	Adjustment Method	Torque
Tilt adjustment	A	Tighten direction ・・・ Decrease CUE Loosen direction ・・・ Increase CUE	
Height adjustment	B	Tighten direction ・・ In case of increase CTL, when A/C Head Press down. Loosen direction ・・ In case of increase CTL, when A/C Head lift up.	
Azimuth adjustment	F	Phase is adjusted by screw F	
X-value adjustment	C D	Adjust X-value by VFK0357 at Hole (E), then tighten the screw (C) and (D) to fix A/C Head horizontal position.	2.5Kg.cm
Fixed Tilt and Azimuth	G	Screw (G) is always tighten during adjustment except Tilt and Azimuth.	1.0Kg.cm
Fixed height	H	After height adjustment, tighten the screw (H) to fix height of A/C Head.	

SCREW	Tool for adjustment
A	VFK1178 (0.89mm Hex Driver)
B	VFK1150 (5.5mm Tool for adjustment)
F	VFK1148 (1.5mm Hex Driver)
C,D,G	VFK1209 (Torque Driver) VFK1375 (1.5mm Post Axis Driver)
H	VFK1190 (1.5mm L type of Hex Wrench)

1. Each adjustment of A/C Head should be perform under the screw (G) tightened.
2. Confirm the screw (A) does not loosen, before execute the A/C Head Tilt adjustment. The screw (A) should be always touch to top of A/C Head.
3. Be careful the tape damage at T3 Post, when adjust tilt of A/C Head.
4. When the height of A/C Head is adjusted by Nut (B), first the screw (H) should be loosen. And after height adjustment finished, tighten the screw (H) lightly.
5. Each adjustment of A/C Head should be finished at the condition of turn the each adjustment screw tighten direction. And hit the portion (L) lightly for remove the distortion.
6. Adjust alternately each A/C Head adjustment with Envelope Waveform adjustment.



A/C HEAD HEIGHT



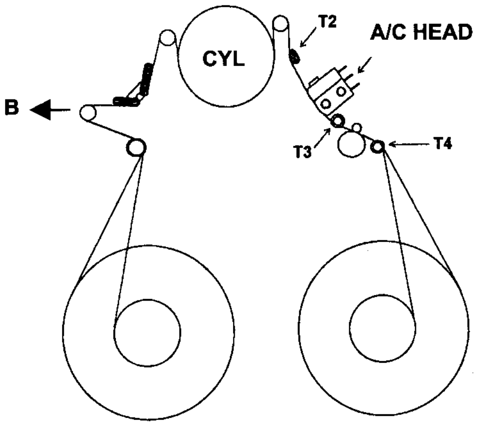
5-16. A/C Head Tilt Adjustment

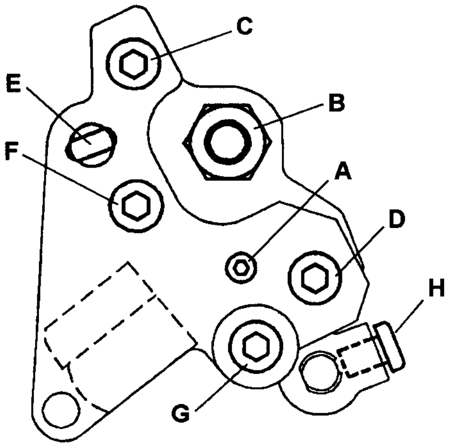
SPEC	Lower limit at T3 Post No tape curl
ADJUSTMENT	SCREW A and G (A/C Head)
MODE	PLAY
TAPE	Blank Tape
M.EQ	VFK1148、VFK1178(Hex Driver)

1. Play back the tape and adjust screw(A) for adjustment of tilt of A/C Head so that the tape path has lower limit without curl at T3 post.
2. To adjustment, loosen the screw (G) and make curl on tape at lower flange of T3 post by screw (A). And tighten screw (A) accordingly for find the point of curl disappeared. After finish adjustment for screw (A), tighten the screw (G) is tightened with 1.0Kg/cm of torque.

(NOTE)

1. In case of turn clockwise screw (A).
   → Tape goes up at T3 post.
   In case of turn counter-clockwise screw (A).
   → Tape goes down at T3 post.
2. When screw adjustment finished, with each adjustment screw on A/C Head should be finished tighten direction. And confirm that the screw does not loosen.
3. Adjust and confirmation should be performed alternately with each A/C head adjustment(Azimuth and Height).





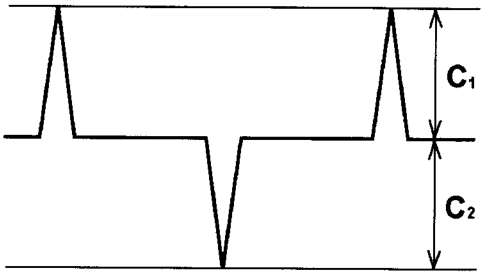
5-17. A/C Head Height adjustment

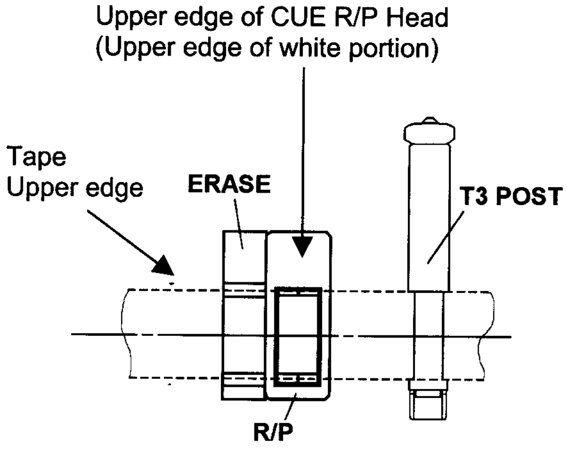
BOARD	SERVO
SPEC	CTL Output (C1,C2≧1.8V)
TEST POINT	TP30:CTL
ADJUSTMENT	SCREW B and H (A/C Head)
MODE	PLAY
TAPE	**NTSC:** VFM3580KM (14min to 22min) **PAL:** VFM3680KM (14min to 22min)
M.EQ	Oscilloscope
TOOL	VFK1150(Nut Driver) VFK1190(Hex Wrench)

1. Observe the CTL output (TP30) on the Servo board.
2. Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CTL output level is decreased.
3. If increases CTL output, when press the A/C Head. Loosen the screw H and adjust the screw B counterclockwise until CTL output is maximized.
4. If increases CTL output, when lift up the A/C Head. Loosen the screw H and adjust the screw B clockwise until CTL output is maximized.
5. After tightening the screw H(2.0kg), confirm the level again.

< NOTE >

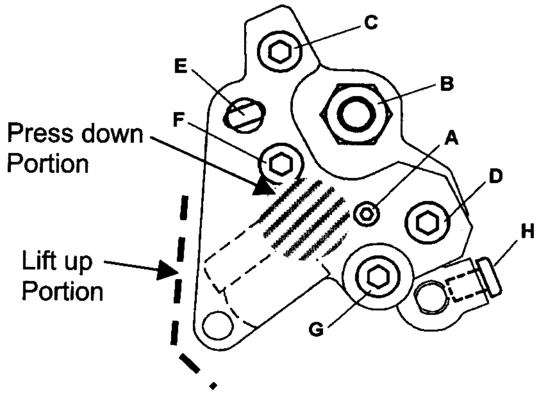
1. Adjust alternately with other A/C head adjustments(Azimuth, Height).





Upper edge of CUE R/P Head
(Upper edge of white portion)
Tape
Upper edge
ERASE
T3 POST
R/P

A/C HEAD HEIGHT



C
E
B
F
A
D
H
G
Press down
Portion
Lift up
Portion

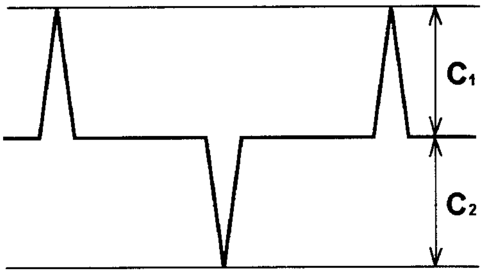
5-18. A/C Head Azimuth Adjustment

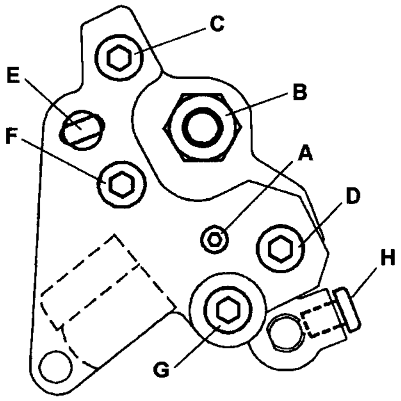
BOARD	SERVO
SPEC	CTL Output:C1,C2 = C1 max, C2 max
TEST POINT	TP30:CTL
ADJUSTMENT	SCREW F (A/C Head)
MODE	PLAY
TAPE	**NTSC:** VFM3580KM (14min to 22min) **PAL:** VFM3680KM (14min to 22mi)
M.EQ	Oscilloscope
TOOL	VFK1148(Hex Driver)

1. Observe the CTL output (TP30) on the Servo Board.
2. To adjustment, loosen the screw (G) and adjust screw (F) so that the CTL output become maximum.
3. Tighten screw (G) with 1.0Kg torque.

< NOTE >

1. Adjust alternately with other A/C head adjustments(Azimuth, Height).

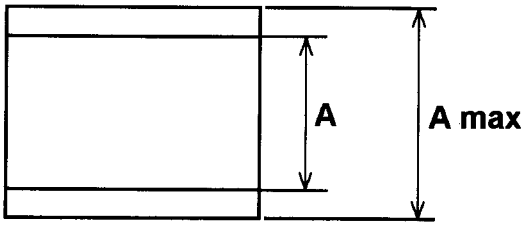


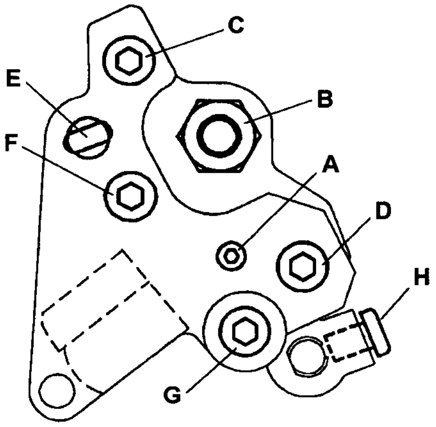


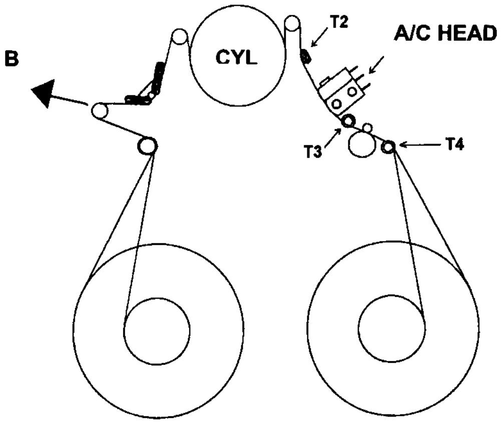
5-19. A/C Head Tilt Confirmation

SPEC	A/Amax ≧ 0.8
TEST POINT	TP381:CUE (ADDA CUE Board:H2)
ADJUSTMENT	SCREW A and G (A/C Head)
MODE	PLAY
TAPE	**NTSC:**VFM3580KM (14min to 22min) **PAL:** VFM3680KM (14min to 22min)
M.EQ	Oscilloscope
TOOL	VFK1178、VFK1148(Hex Driver)

1. Playback the Alignment tape.
2. Confirm that the screw G and H are not loosened.
3. Push the tension arm follow the arrow (B) direction as shown in figure as range of T2 post does not move. And confirm that the CUE output level is within specification.
4. If out of specification, loosen the screw G and adjust the screw A, then tighten the screw G with 1.0kg torque.
5. The final touch of the adjustment must be turned clockwise. After this adjustment, confirm that the screw A is not loosened.
6. If adjust the screw A, Confirm that the tape pass condition follow Post Limit Confirmation procedure (item 5-14).



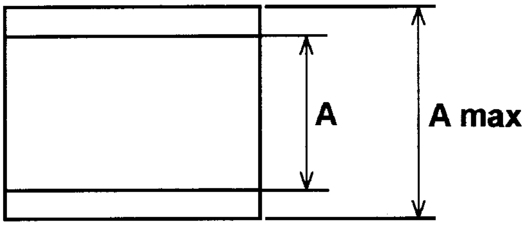


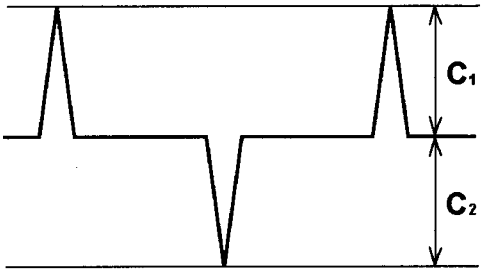


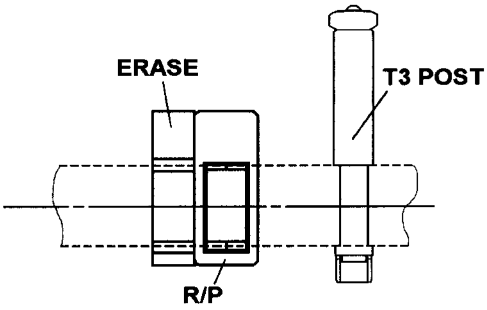
5-20. A/C Head Height Confirmation

SPEC	A≧0.95×Amax、 C1、C2 ≧ 1.8V
TEST POINT	TP381 CUE (ADDA CUE Board:F8) TP30 CTL (SERVO Board:F1)
ADJUSTMENT	SCREW B and H(A/C Head)
MODE	PLAY
TAPE	**NTSC:** VFM3580KM (14min to 22min) **PAL:** VFM3680KM (14min to 22min)
M.EQ	Oscilloscope
TOOL	VFK1150(Nut Driver) VFK1190(Hex Wrench)

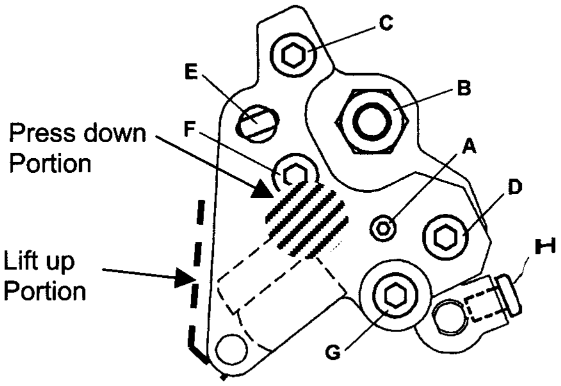
1. Playback the Alignment tape.
2. Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CUE output level at TP381 does not increased.
3. If increases CUE output, A/C Head Height adjustment performed. And also confirm that the CTL output level.
4. If adjust the height of A/C Head, Azimuth also changed. Therefore adjust and confirm alternately Height and Azimuth of A/C Head.
5. After screw (H) is tightened, height and tilt of A/C Head are changed. Therefore confirmation of specification must be done after tightening the screw (H).







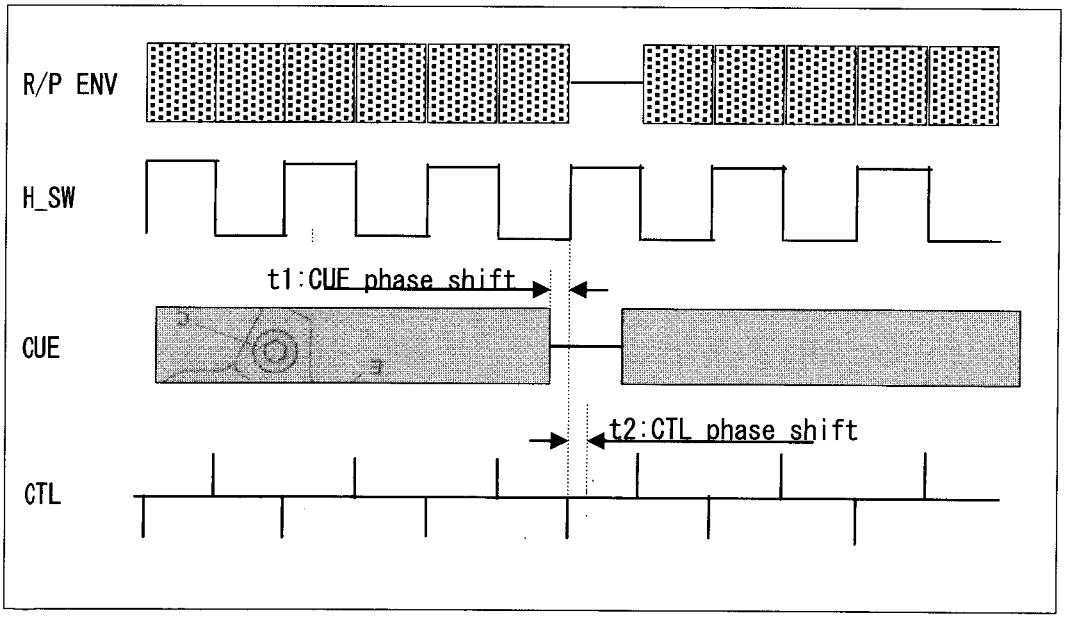
A/C HEAD HEIGHT

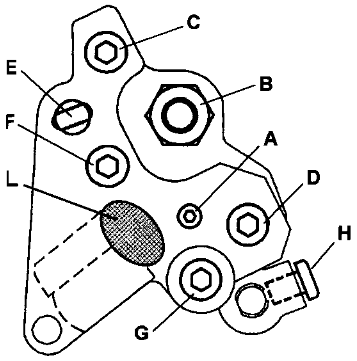


5-21. A/C Head Azimuth and X-value Adjustment.

SPEC.	As shown in below figure. 250us≦t1、t2≦+250us	**TEST POINT**	TP16 :RP ENV (RF AMP Board:H4) TP233:RP HSW (SERVO Board:F1) TP381:CUE AUDIO (ADDA CUE Board:F8) TP30 :CTL (SERVO:F1)
ADJUSTMENT	A/C Head each screws		
MODE	PLAY SERVO ADJUST: A07:RP LINEAR P	**M.EQ**	Oscilloscope
TAPE	**NTSC:** VFM3582KM (X-value) **PAL:** VFM3682KM (X-value)	**TOOL**	VFK0357(Eccentric Screwdriver)

1. Open the Service menu and select the item "A07:RP LINEAR P" on Servo Adjust menu for RP Head ATF Playback.
2. Playback the X-value Alignment tape.
3. Confirm that the phase of CUE and CTL are within specification against RP HSW pulse trigger. If not perform the X-value adjustment follow the below procedure.
4. Adjust A/C Head Azimuth (refer to Azimuth adjustment procedure) so that the CTL and Lack part of CUE(t2) is match in the phase.
5. Confirm the lack track of envelope, and select the HSW correspond with it (The lack track is correspond HSW high with L ch).
6. Adjust X-value so that the reference of HSW and CTL trigger (CTL falling edge is the reference: refer to below figure) are match in the phase(t1). To adjust X-value, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 2.5Kg torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
7. Hit the top plate (portion L as shown in below figure) of A/C Head lightly by a pointed end of Eccentric driver, then confirm the phase is not shifted finally.





5-22. REV Tape Pass Confirmation and Adjustment (T4 post height adjustment)

SPEC.	C1、C2≧Cp1、Cp2×0.75 Lower limit at T3 post on REV mode	**TAPE**	**NTSC:** VFM3580KM **PAL:** VFM3680KM
TEST POINT	TP30(SERVO:F1)	**M.EQ**	Oscilloscope
ADJUSTMENT	T4 post height	**TOOL**	VFK1151(Nut Driver)
MODE	REV×1		

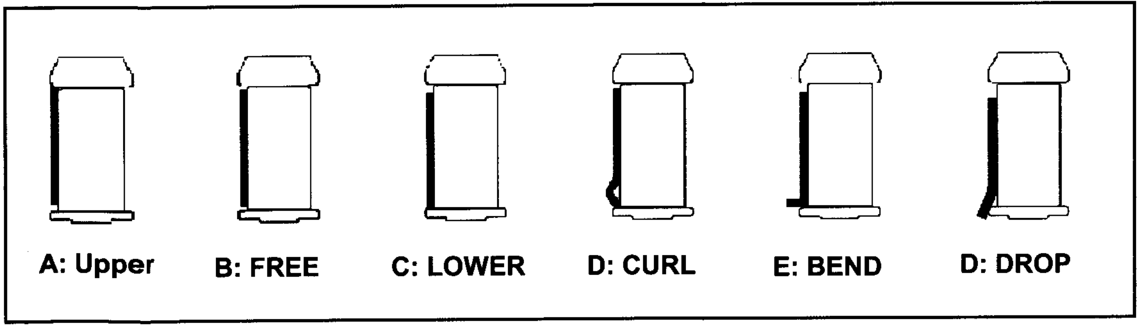
1. Place unit into REV mode, and confirm the post limit and CTL signal are in the specification. IF not, adjust T4 post follow the below procedure.
2. Turn the Nut of T4 post clockwise or counter-clockwise follow the tape limit condition at T3 post. The maximum rotation angle is 90 degree.
3. Place unit into REV X1 mode and confirm the CTL output level is become more than 75% on play mode. Confirm the tape pass limit become lower limit at T3 post and the tape does not have curl at T3 and T4 post.
4. However out of specification, adjust T4 post height follow the Post Height Pre-adjustment procedure.

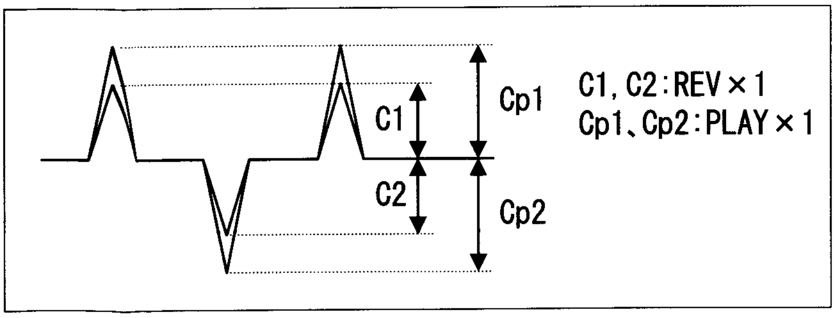
T4 Nut adjustment direction

Direction of adjustment nut of T4 post	CTL level on REV mode	Lower limit at T3 post On REV mode
Tighten direction	Increase	Tape touch to strong
Loosen direction	Decrease	Tape touch to weak

Post Limit

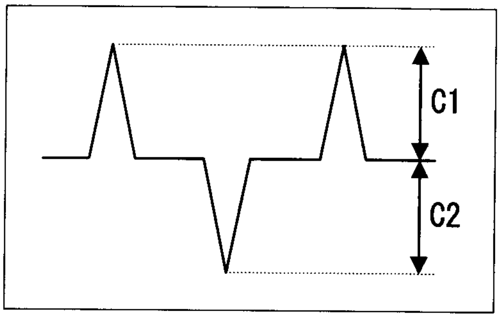
Post Name	Tape limit					
	A	B	C	D	E	F
T3 Post	×	×	O	×	×	×
T4 Post	O	O	O	×	×	×





5-23. CTL Self Recording Level Confirmation

SPEC.	Refer to below table
TEST POINT	TP30 (SERVO Board)
MODE	REC and PLAY
TAPE	Blank tape
M.EQ	Oscilloscope



NOTE: This confirmation should be done after each screws of A/C Head are fixed.

1. Record the blank tape.
2. Playback the recorded portion and confirm the CTL level is within specification as shown as below table on PLAY and REV X1 mode.

CTL Output Level C1,C2

PLAY	REV × 1	REV × 0.2
C1,C2≧1.8V	C1,C2≧1.4V	C1,C2≧1.2V

CTL Output Level C1,C2

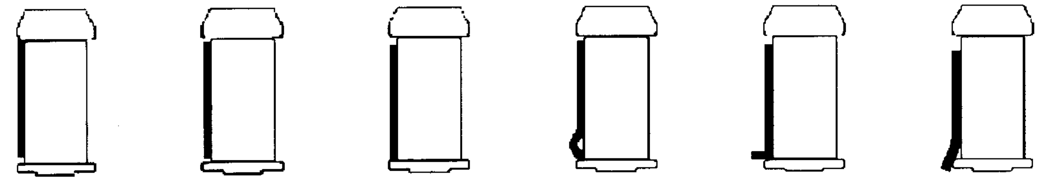
1. PLAY NG → Re-confirm the A/C Head height adjustment.
2. REV NG → Re-confirm the T4 post adjustment.

5-24. PLAY Tape Pass Limit Confirmation

SPEC.	Each Post limit shown in table
MODE	PLAY
TAPE	M cassette (MP tape) tape. Tape beginning and end portion

Post Name	Tape Limit (Refer the figure)						Adjustment	
	A	B	C	D	E	F		
S5 post	X	O	O	X	X	X	S4、S5 Post	Post Height Pre-Adj.
S4 post	X	X	O	X	X	X		
S1 post	O	X	X	X	X	X	S1 Post	Envelope waveform Adj.
T1 post	O	X	X	X	X	X	T1 Post	Envelope waveform Adj.
T3 post	X	X	O	X	X	X	A/C Head tilt	A/C Head tilt Adj.
T4 post	X	O	O	X	X	X	T4 Post	Post Height Pre-Adj

1. Place unit into PLAY mode and confirm the each post limits is within specification.
2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).

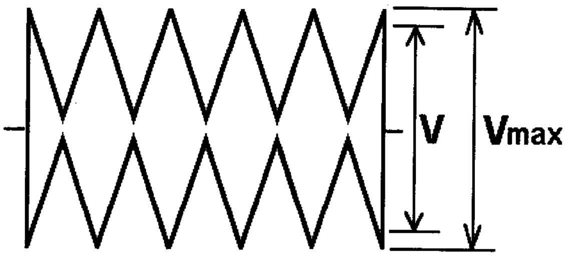


A: Upper B: Free C: Lower D: Curl E: Bend F: Drop

5-25. Confirmation of Envelope on REV,REW and FF mode.

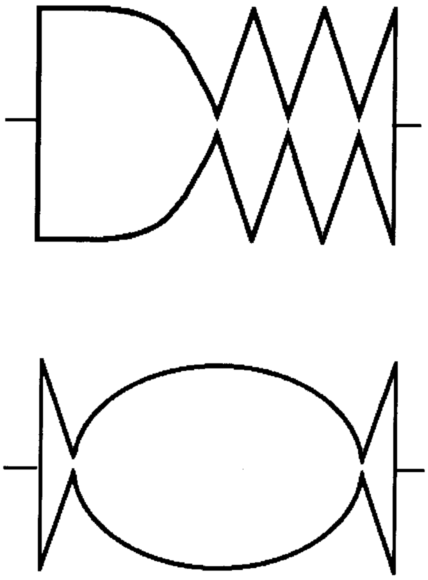
SPEC.	V/Vmax ≧ 0.9
TEST POINT	TP16 :RP ENV (RF AMP Board:H4)
MODE	REV、REW、FF
TAPE	**NTSC:** VFM3580KM **PAL:** VFM3680KM
M.EQ	Oscilloscope

1. Confirm that the Envelope waveform becomes in the specification on REV,REW and FF mode as refer to figure and below.
   - Waveform must be Diamond Style.
   - All the peak level must be more than 90% of maximum level.
     V/Vmax ≧ 0.9
2. If out of spec, adjust S4 post height.



OK

NG



6-19. Distinction SW Unit Replacement

(Removal)

1. Remove the Top Case Unit.
2. Remove the Front Loading Unit.
3. Remove the Bottom Case Unit.
4. Open the P.C.Board Unit and remove the Shield Plate.
5. Disconnect the connector P17 on Servo P.C.Board.
6. Unscrew the 3 screws (A) and remove the Distinction SW Unit as shown in Figure 6-19-1.

(Installation)

1. Install the new Distinction Switch Unit follow the removal steps in reverse order.
2. Confirm that the M and L cassettes touch to Distinction Switch Unit correctly.

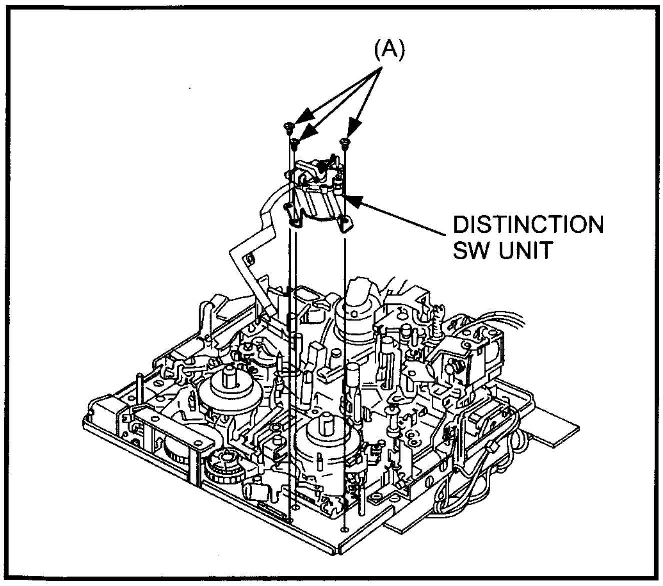


Fig. 6-19-1 Removal of Distinction Switch Unit

6-20. Reel Drive Motor Unit Replacement

(Removal)

1. Remove the Top Cover.
2. Remove the Front Loading Unit.
3. Disconnect the connector P16 on the Mech I/I P.C.Board. as shown in Figure 6-3-1.
4. Unscrew the 2 screws (A) and remove the Ree Drive Sensor P.C.Board as shown in Figure 6-19 1.
5. Unscrew the 2 screws (B) and remove the Ree Drive Motor Unit as shown in Figure 6-20-1.

(Installation)

Install the new Reel Drive Motor Unit follow th removal step in reverse order.

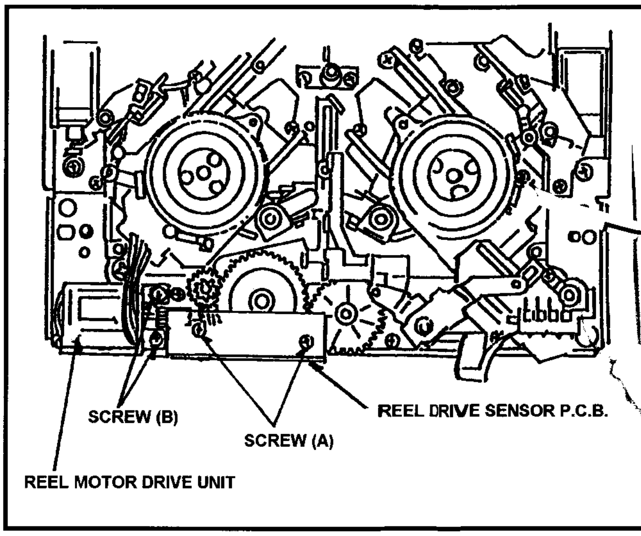


Fig.6-20-1 Removal of Reel Drive Motor Unit

6-17-2.Cleaner Roller Position Adjustment

※ Tools Required : Eccentric Driver (VFK0357)

1. Observe the clearance (A) between Cleaner Roller and cylinder Unit as shown in Figure 6-15-3. And make sure that it is within 1.0 to 1.2mm.
2. If not, loosen the 2 screws (B) and adjust the position of Cleaner Base Plate by moving arrow direction (A ⇔ A) using the Eccentric driver so that the clearance (A) is within specification. And tighten the 2 screws (B).

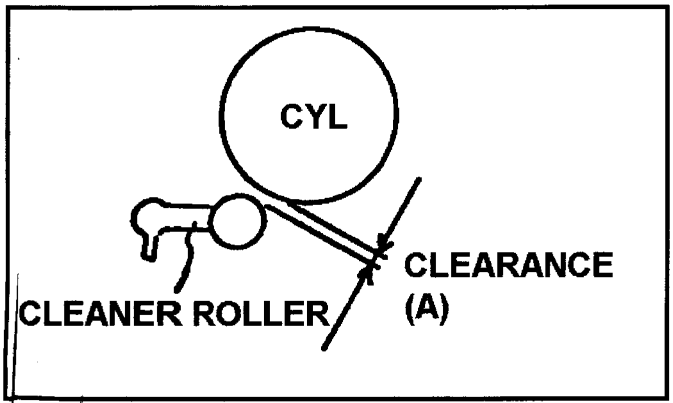


Fig.6-17-4 Cleaner Roller Position Adjustment

6-18. M-Stopper Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Cover.
2. Remove the Front Loading Unit.
3. Remove the connector P24 on the Mech I/F P.C.Board as shown in Figure 6-3-1..
4. Unscrew the 4 screws (A) and (B) and remove the M-Stopper Solenoid as shown in Figure 6-18-1.

(Installation)

1. Install the new M-Stopper Solenoid follow the removal steps in reverse order.
2. After installation, position adjustment should be performed as follows.

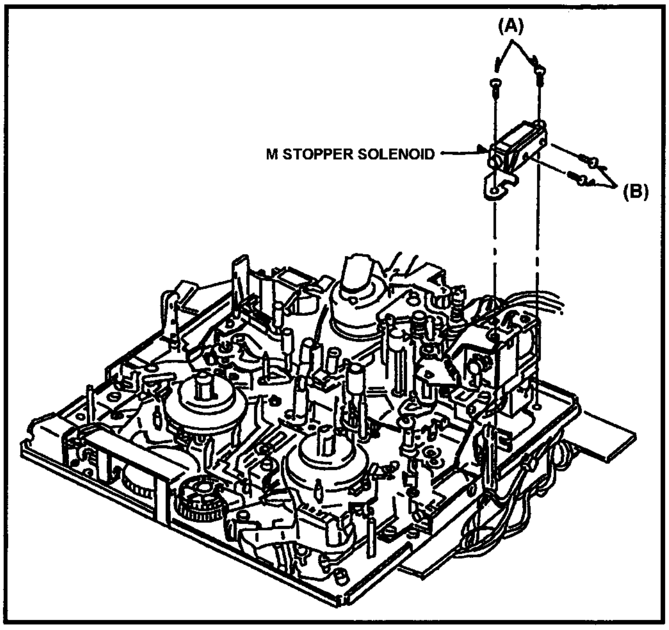


Fig.6-18-1 Removal of M-Stopper Solenoid

(Adjustment)

1. Place the reels in the L size position.
2. Push the iron core of M-Stopper Solenoid by hand.
3. Observe the clearance (A) between Mech Chassis and M-Stopper as shown in Figure 6-18-2. And make sure that it is within 1.1 to 1.3mm.
4. If not, loosen the 2 screws (A), which fixed M-Stopper Solenoid. And adjust the position of M-Stopper Solenoid so that the clearance (A) is within specification. And tighten the 2 screws (A).

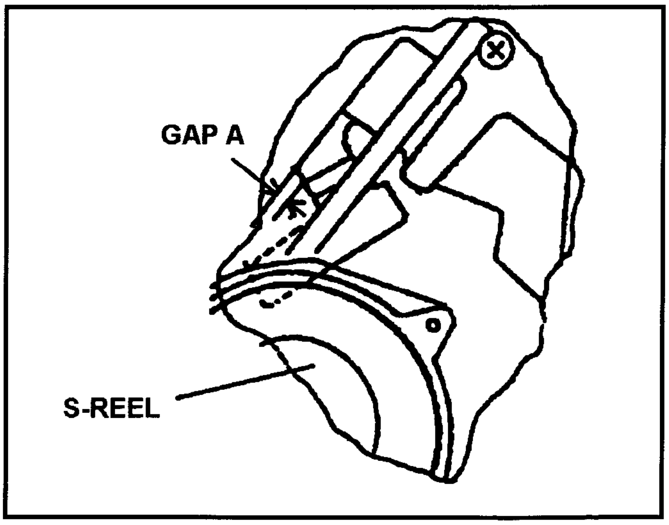


Fig.6-18-2 M-Stopper Solenoid Position Adjustment

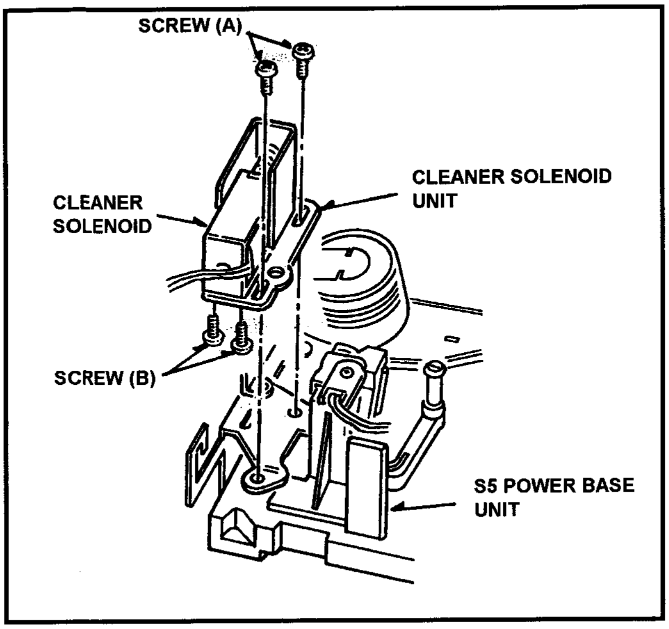

SCREW (A)
CLEANER SOLENOID
CLEANER SOLENOID UNIT
SCREW (B)
S5 POWER BASE UNIT

Fig.6-17-1 Removal of Cleaner Solenoid

6-17-1. Cleaner Solenoid Position Adjustment

※ Tools Required : Eccentric Driver (VFK0357)

1. Press the iron core of Cleaner Solenoid.
2. Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure 6-15-2. And make sure that it is within 0.5 to 0.7mm.
3. If not, loosen the 2 screws (A) and adjust the position of Cleaner Solenoid Unit by moving arrow direction (C⇔C) using the Eccentric drive so that the clearance (D) is within specification. And tighten the 2 screws.
4. After adjustment, confirm that as follow.
5. Press the iron core of Cleaner Solenoid and released it, then the Cleaning Roller is return to original position.
6. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated, when the Cylinder is rotated by hand.

Note: If remove the cleaner Base Plate, Cleaner roller Position adjustment should be performed.

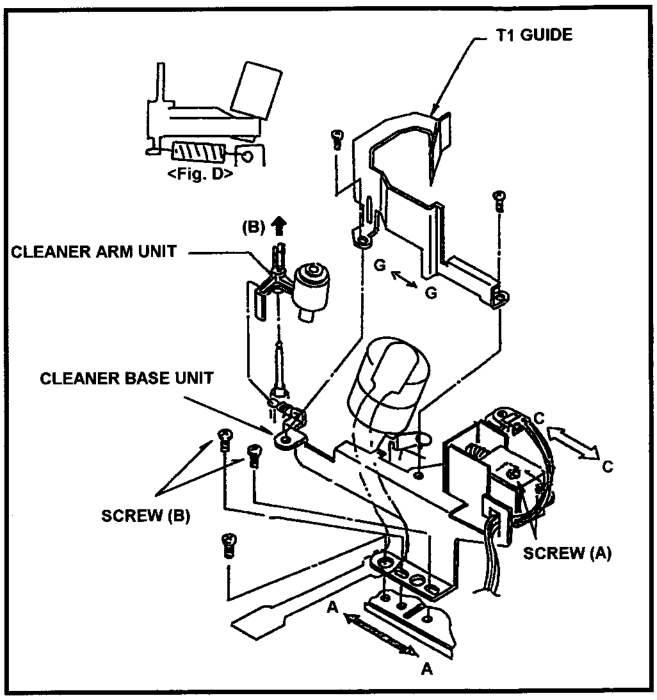

T1 GUIDE
<Fig. D>
(B)
CLEANER ARM UNIT
G
G
CLEANER BASE UNIT
C
C
SCREW (B)
SCREW (A)
A
A

Fig.6-17-2 Cleaner Solenoid Position Adjustment (1)

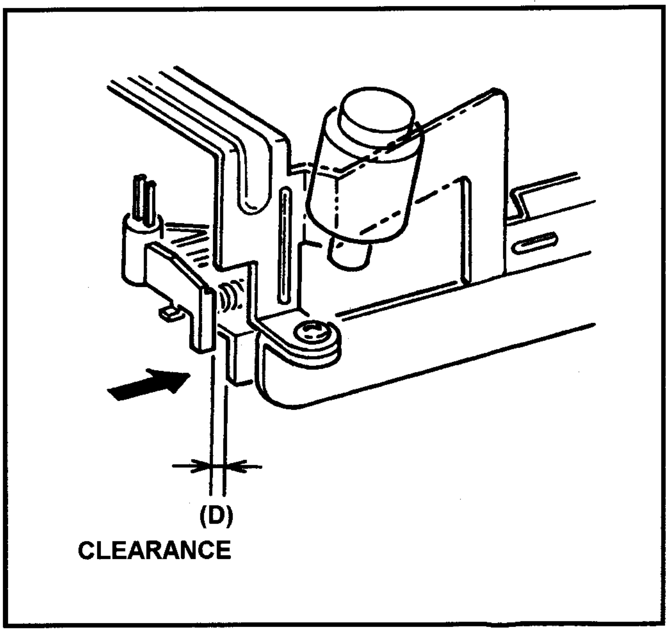

(D)
CLEARANCE

Fig.6-17-3 Cleaner Solenoid Position Adjustment (2)

6-15. T1 Boat Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Unscrew the screw (C) and remove the T1 Post from Loading Rail as shown in Figure 6-14-1.
4. Hang off the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure 6-14-1.

(Installation)

1. Install the new T1 Boat Unit follow the removal steps in reverse order.
2. After installation confirm that the T1 Post moving smoothly on the Loading Rail.

Linearity adjustment (Refer to item 5-12 [Tape Pass Adjustment Procedure]) should be performed.

6-16. T1 Loading Arm Unit Replacement and Adjustment

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the cylinder Unit (Refer to item 6-1).
4. Move the T1 Post to loading direction by manual ejecting method until the screw (D) can be removal position as shown in Figure 6-14-1.
5. Unscrew the 2 screws (A) and (C), then remove the S1 and T1 Post from Loading Rail as shown in Figure 6-14-1.
6. Unscrew the 2 screws (D) and (E), then remove the Loading Rail as shown in Figure 6-14-1.
7. Remove the T1 Loading Arm Unit as shown in Figure 6-14-1.

(Installation)

1. Install the T1 Loading Arm Unit follow the removal steps in reverse order, then Phase Adjustment should be performed as follows.

Note: This replacement should be performed simultaneously, replacement of Cylinder Unit. It is convenience for Replacement of T1 Loading Arm Unit.

(Adjustment)

1. When install the T1 Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 6-16-1.
2. After installation confirm that the S1 and T1 Post moving smoothly on the Loading Rail.
3. Post Height Pre-adjustment (Refer to item 5-3) and Linearity adjustment (Refer to item 5-12 [Tape Pass Adjustment Procedure]) should be performed.

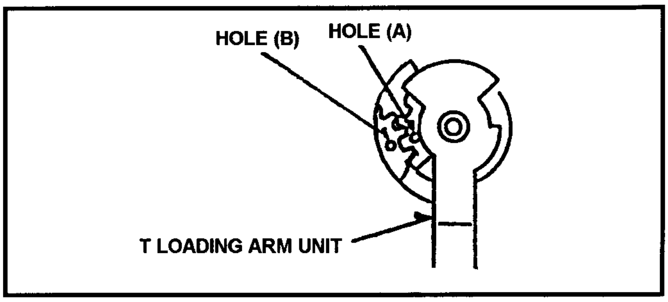


Fig.6-16-1 Phase Adjustment of T1 Lording Arm Unit

6-17. Cleaner Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Disconnect the connector P11 on the Mech I/F P.C.Board.
4. Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure 6-17-1.
5. Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure 6-17-1.

(Installation)

1. Install the new Cleaner Solenoid follow the removal steps in reverse order.
2. After installation, Cleaner Solenoid Position adjustment should be performed as follows.

6-14. S1 Post Loading Arm Unit Replacement and Adjustment

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the S5 Post Base Unit (Refer to item 6-12).
4. Remove the Tension Arm Unit(Refer to item 6-13).
5. Unscrew the screw (A) and remove the S1 Post from Loading Rail as shown in Figure 6-14-1.
6. Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure 6-14-1.

(Installation)

1. Install the new S1 Loading Arm Unit follow the removal steps in reverse order, then S1 Post Loading Arm Unit Phase Adjustment should be performed as follows.
2. After installation, confirm that the S1 Post moving smoothly on the Loading Rail.
3. Tension Arm (Refer to item 5-5), Post Height Pre-Adjustment (Refer to item 5-4) and Linearity Adjustment. (Refer to item 5-12 [Tape Pass Adjustment Procedure]) should be performed.

(Adjustment)

1. When install the S1 Post Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 6-14-1.

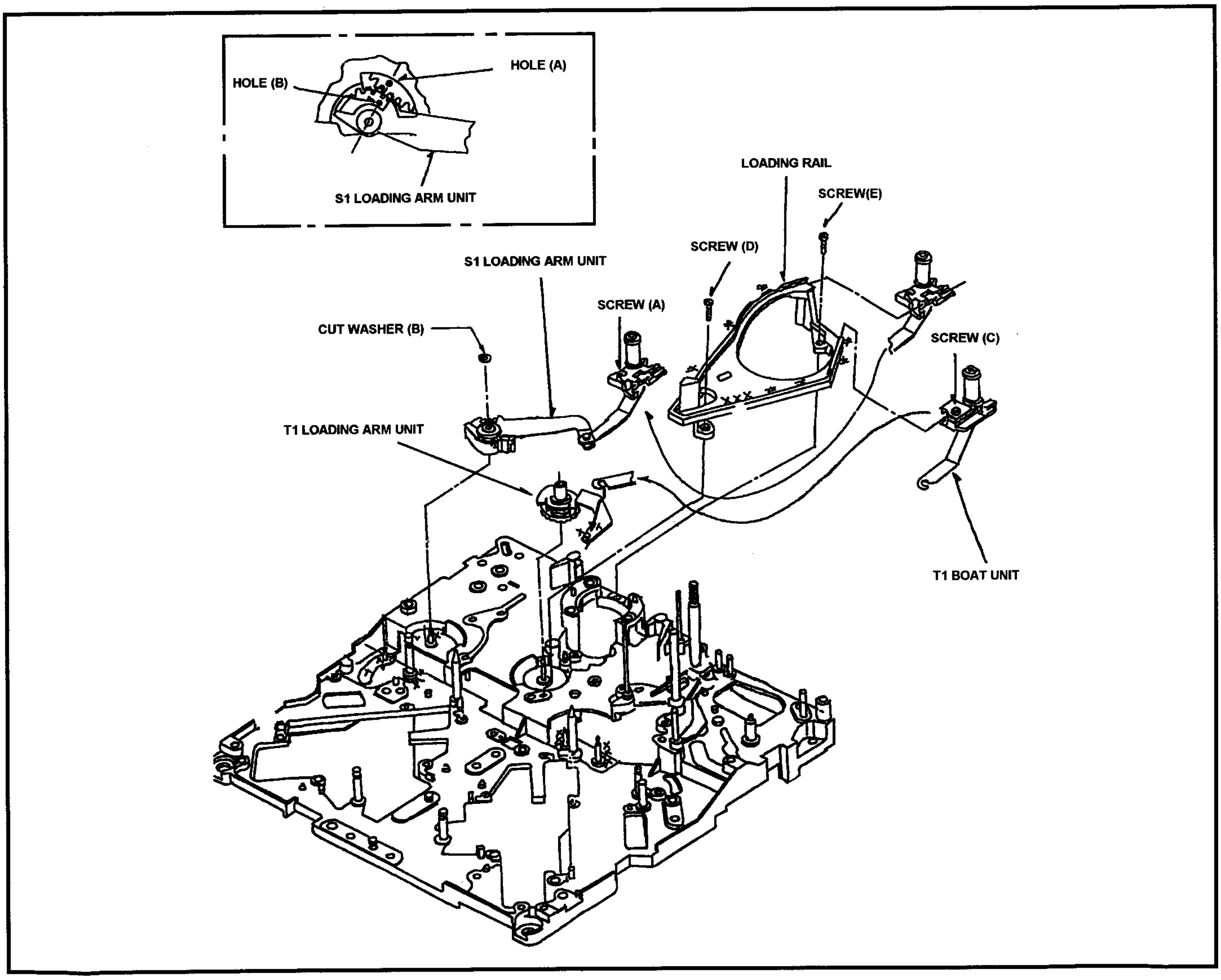

HOLE (B)
HOLE (A)
S1 LOADING ARM UNIT
LOADING RAIL
SCREW(E)
SCREW (D)
S1 LOADING ARM UNIT
SCREW (A)
CUT WASHER (B)
SCREW (C)
T1 LOADING ARM UNIT
T1 BOAT UNIT

Fig.6-14-1 Removal of S1 Post Loading Arm Unit

6-12. S5 Post Base Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure 6-12-1.

(Installation)

1. Install theS5 post Base Unit follow the removal steps in reverse order, then be careful the S5 Post Base Unit is install to mech chassis as shown in Figure 6-12-1.
2. After installation, Post Height pre-adjustment (Refer to item 5-4) and Linearity adjustment (Refer to item 5-12 [Tape Pass Adjustment Procedure]) should be performed.

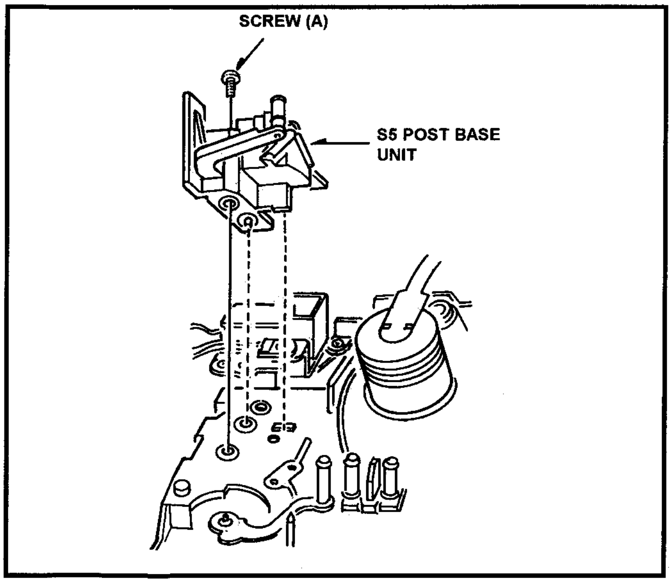

SCREW (A)
S5 POST BASE UNIT

Fig.6-12-1 Removal of S5 Post Base Unit

6-13. Tension Arm Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Cut Washer (A) and hang off the Tension Regi Spring, then remove the Tension Arm Unit as shown in Figure 6-13-1.

(Installation)

1. Install the new Tension Arm Unit follow the removal steps in reveres order.
2. After installation, Tension Arm Adjustment should be performed the following steps.

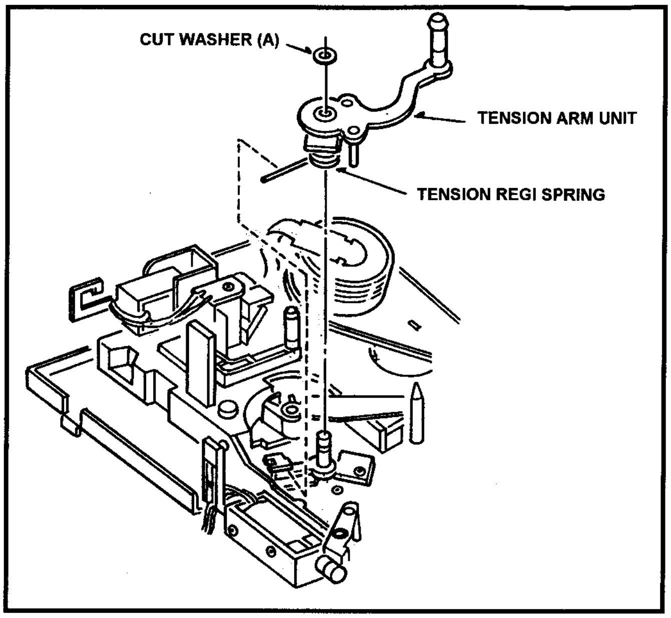
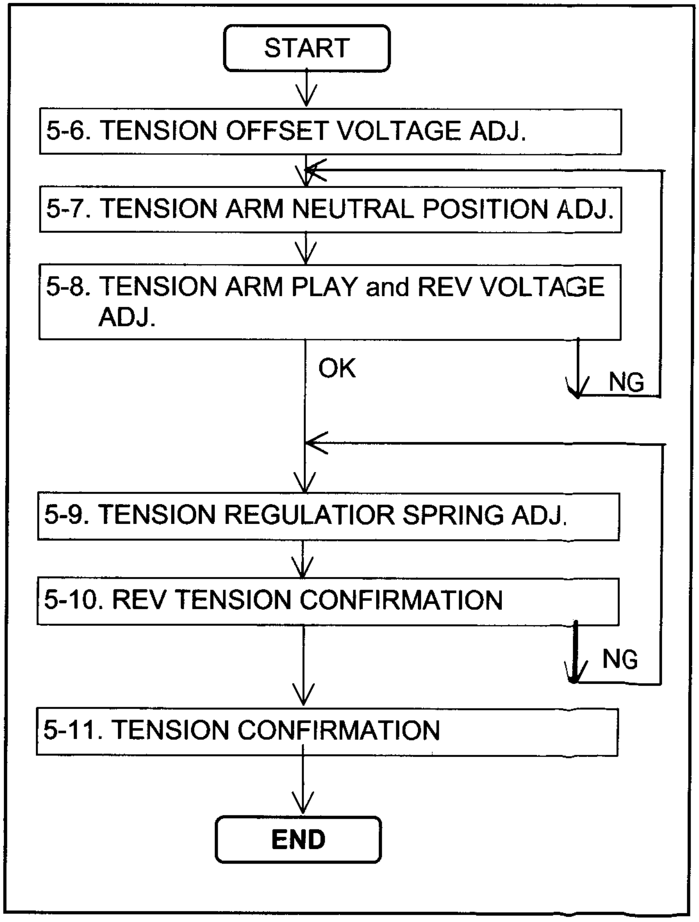

CUT WASHER (A)
TENSION ARM UNIT
TENSION REGI SPRING

Fig.6-13-1 Removal of Tension Arm Unit

Tension Arm Adjustment Flowchart


START
5-6. TENSION OFFSET VOLTAGE ADJ.
5-7. TENSION ARM NEUTRAL POSITION ADJ.
5-8. TENSION ARM PLAY and REV VOLTAGE ADJ.
OK
NG
5-9. TENSION REGULATIOR SPRING ADJ.
5-10. REV TENSION CONFIRMATION
NG
5-11. TENSION CONFIRMATION
END

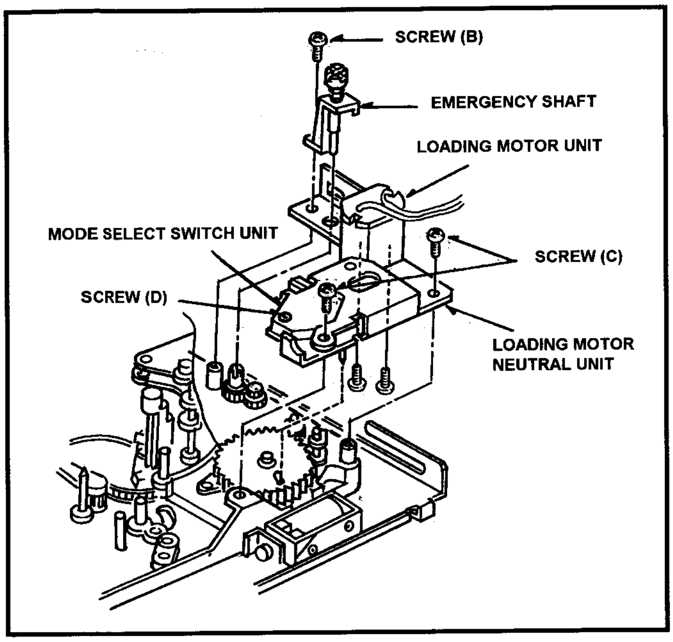

SCREW (B)
EMERGENCY SHAFT
LOADING MOTOR UNIT
MODE SELECT SWITCH UNIT
SCREW (C)
SCREW (D)
LOADING MOTOR NEUTRAL UNIT

Fig.6-10-1 Removal of mode Select Switch Unit

6-11. Main Cam Gear Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Pinch Solenoid Unit (Refr to item 6-7) and Loading Motor Neutral Unit (Refer to item 6-9).
4. Remove the Main Cam Gear as shown in Figure 6-11-1.

(Installation)

1. Install the Main Cam Gear, then the pin of Main Cam Arm Unit (※) should be matched with the groove position of Main Cam Gear as shown in Figure 6-11-1.
2. Follow the removal steps in reverse order.
3. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-2).

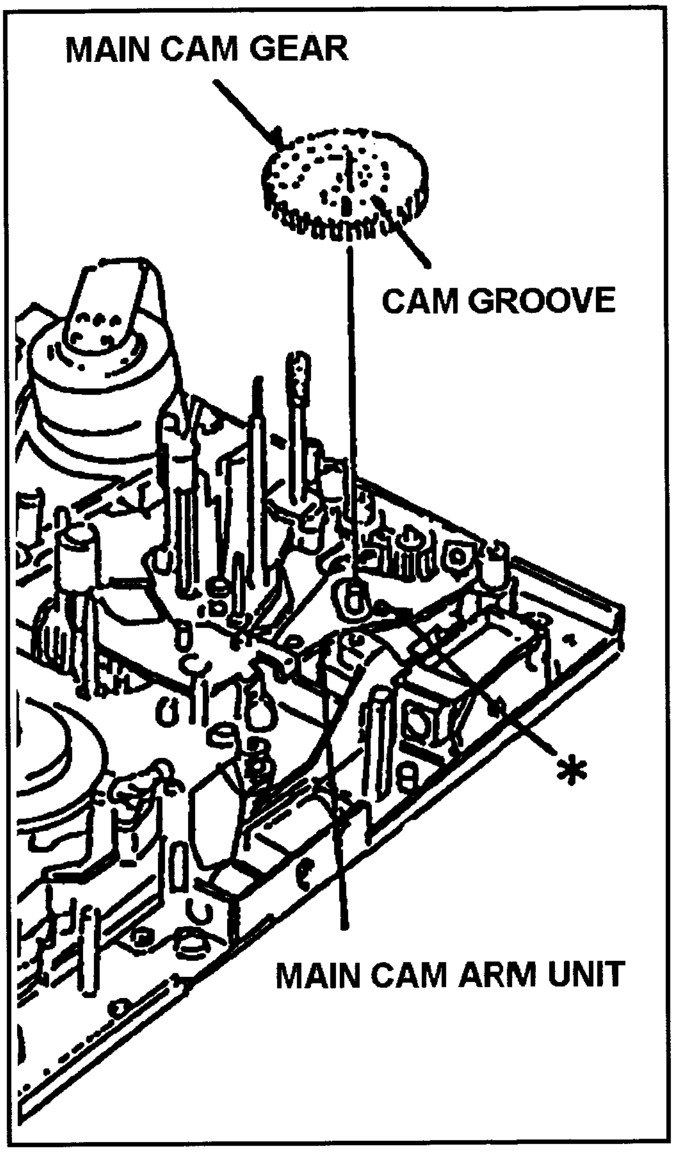

MAIN CAM GEAR
CAM GROOVE
*
MAIN CAM ARM UNIT

Fig.6-11-1 Removal of Main Cam Gear

6-9. Loading Motor Unit Replacement

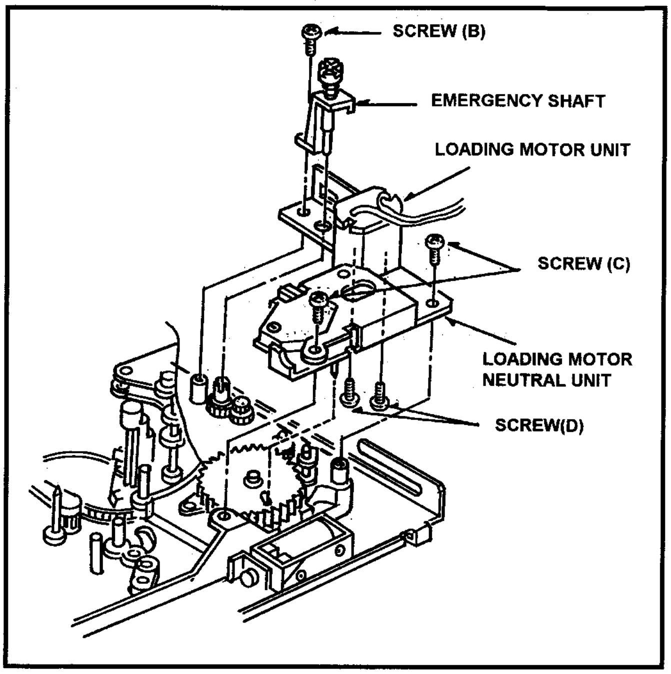
(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Bottom Panel.
4. Disconnect the connector P21 on Mech I/F P.C.Board as shown in Figure 6-3-1.
5. Remove the Pinch Solenoid Unit (Refer to item 6-7).
6. Remove the Pinch Solenoid Lever. (Refer to item 6-8).
7. Unscrew the screw (B), and remove the Emergency Shaft as shown in Figure 6-9-1.
8. Unscrew the 2 screws (C) and remove the Loading Motor Neutral Unit as shown in Figure 6-9-1.
9. Unscrew the 2 screws (D) and remove the Loading Motor Unit as shown in Figure 6-9-1.

(Installation)

1. Install the new Loading Motor Unit to Loading Motor Neutral Unit by tightening 2 screws (D).
2. Install the Loading Motor Neutral Unit by tightening the 2 screws (C), then be careful that the pin of Mode SW Unit should be matched to groove position of main Cam Gear.
3. Install the Emergency Shaft by tightening the screw (B).
4. Install the Pinch Solenoid Unit and after installation it, Pinch Solenoid Position adjustment is required. (Refer to item 5-2).
5. Connect the connector P21 on the Mech I/F P.C.Board. as shown in Figure 6-3-1.

Fig. 6-9-1 Removal of Loading Motor



6-10. Mode Select Switch Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Bottom Panel.
4. Disconnect the connector P22 on the Mech I/F P.C.Board as shown as Figure 6-3-1.
5. Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 6-9).
6. Remove the screw (D) and remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Figure 6-10-1.

(Installation)

1. Install the New Mode Select Switch Unit follow the removal steps in reverse order (Please refer to item [6-9. Loading Motor Unit Replacement]).

Note: Be careful the pin of Mode Switch Unit should be matched to groove of Main Cam Gear.

2. After install the Pinch Solenoid Unit, Pinch Solenoid Position adjustment is required (Refer to item 5-2).

6-7. Pinch Solenoid Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Bottom Panel.
4. Disconnect the connector P20 on the Mech I/F P.C.Board as shown in Figure 6-3-1.
5. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Figure 6-7-1.
6. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle as shown in Figure 6-7-1.
7. Unscrew the 2 screw s (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

(Installation)

1. Install the new Pinch Solenoid follow the removal steps in reverse order.
2. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-2).

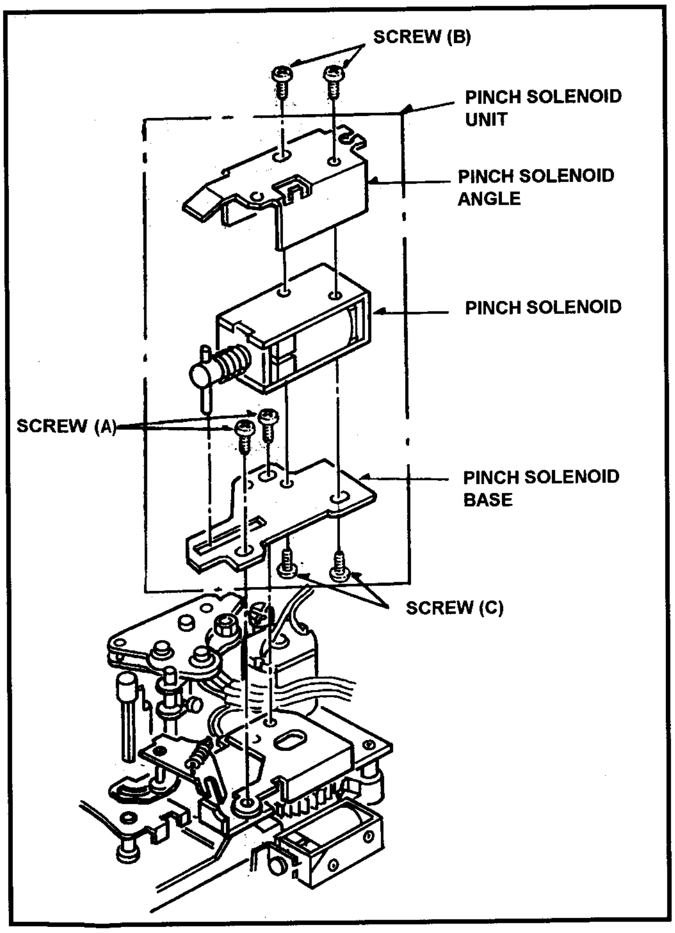

SCREW (B)
PINCH SOLENOID UNIT
PINCH SOLENOID ANGLE
PINCH SOLENOID
SCREW (A)
PINCH SOLENOID BASE
SCREW (C)

Fig.6-7-1 Removal Pinch Solenoid

6-8. Pinch Arm Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Bottom Panel.
4. Disconnect the connector P20 on the Mech I/F P.C.Board as shown in Figure 6-3-1.
5. Remove the Pinch Solenoid Unit (Refer to item 6-9, then hang off the Pinch Solenoid Lever as shown in Figure 6-8-1.
6. Remove the cut washer (A) and remove the Pinch Solenoid Lever as shown in Figure 6-8-1.
7. Remove the cut washer (B) and remove the Pinch Arm Unit as shown in Figure 6-8-1.

(Installation)

Install the new Pinch Arm Unit follow the removal steps in reverse order then Pinch Solenoid Position Adjustment is necessary (Refer to item 5-2).

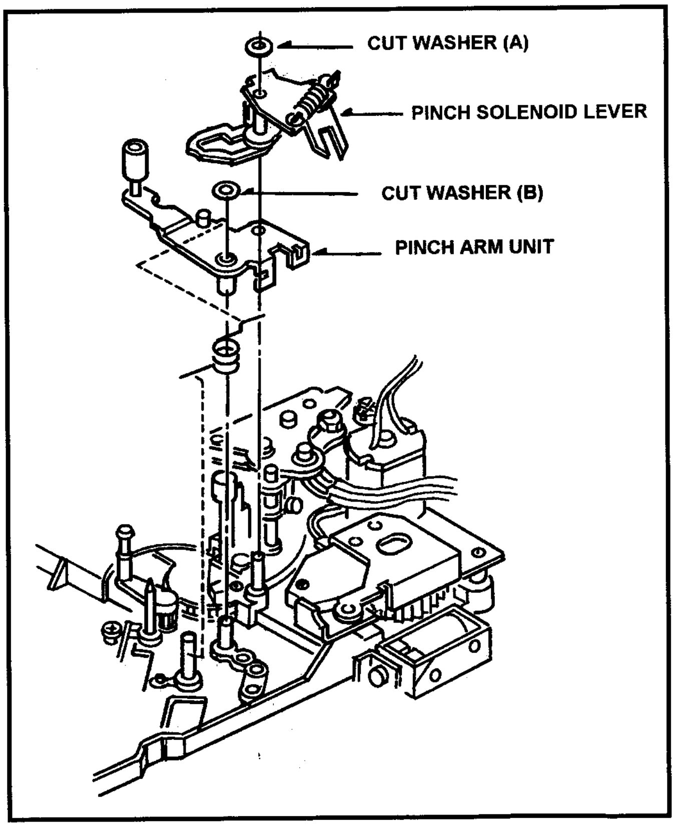

CUT WASHER (A)
PINCH SOLENOID LEVER
CUT WASHER (B)
PINCH ARM UNIT

Fig.6-8-1 Removal of Pinch Arm Unit

(Adjustment)

1. Place the reels in the M cassette size position.
2. Observe the clearance (A) between Brake pad and it's turntable as shown in Figure 6-5-2. And make sure that it is within 0.2 to 0.5mm.
3. If not, loosen the 2 screws (A), which fixed supply and Take Up Brake Solenoid Unit. And adjust the position of Brake Solenoid Unit by moving arrow direction so that the clearance (A) is within specification. And tighten the 2 screws (A).
4. After adjustment, change the reel position to S and L cassette size, and confirm that the clearance (A) is within specification.

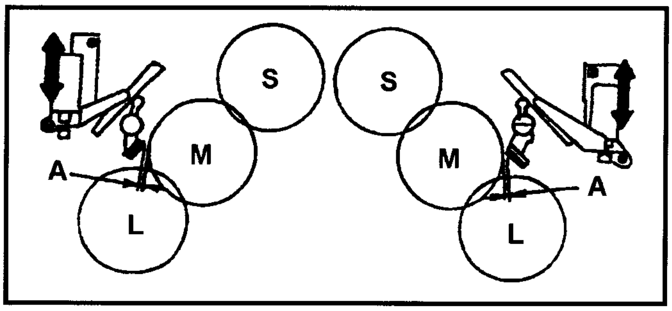


Fig.6-5-2 Brake Solenoid Adjustment

6-6. Take Up Brake Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Bottom Panel.
4. Disconnect the connector P18 on the Mech I/F P.C.Board. as shown in Figure 6-3-1.
5. Unscrew the 2 screws (A) and remove the Take Up Brake Solenoid Base Unit as shown in Figure 6-6-1.
6. Unscrew the 2 screws (B) and remove the Take Up Brake Solenoid from Take Up Brake Solenoid Base Unit as shown in Figure 6-6-1.

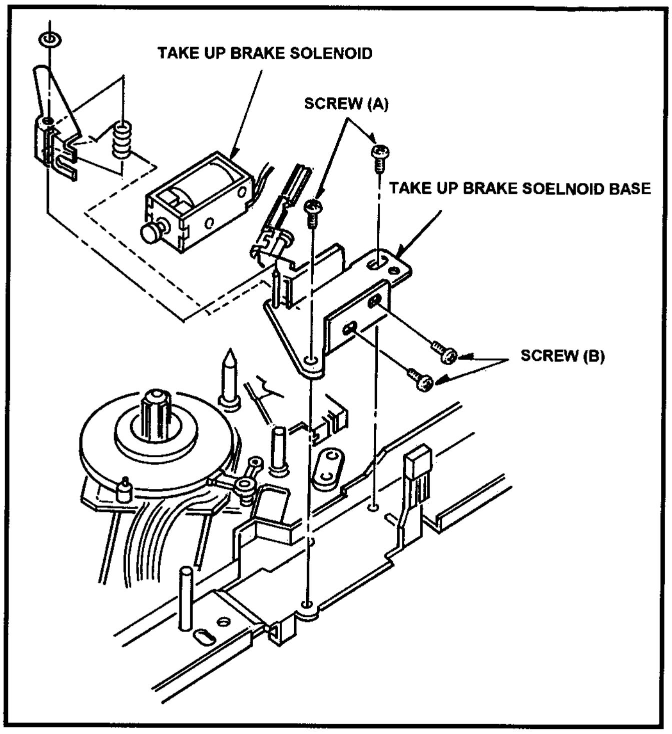


Fig.6-6-1 Removal of Take Up Brake Solrnoid

(Installation)

1. Install the new Take up Brake Solenoid follow the removal steps in reverse order.

Note: Hang on the Take up Brake Spring as shown in Figure 6-6-1.

2. After installation, position adjustment should be performed as follows.

(Adjustment)

Please adjust the position of Take up Brake Solenoid Unit follow the adjustment procedure, which is described item 6-5.

6-4. Supply and Take Up Brake Arm Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Press the iron core of Brake Solenoid for release the Brake.
4. Remove the cut washers (A) and remove the supply and Take Up Brake Arm Unit as shown in Figure 6-4-1.

(Installation)

1. When install the new Brake Arm Unit first, hang on the Brake Arm Spring as shown in Figure 6-4-1.
2. Follow the previous steps in reverse order.
3. Main Brake Torque confirmation is required (Refer to item 5-3).
4. Confirm that the Tension value on the Playback mode (Refer to item 5-11).

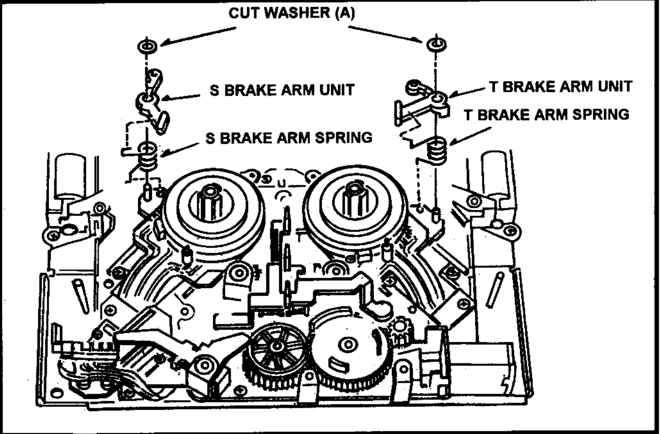

CUT WASHER (A)
S BRAKE ARM UNIT
T BRAKE ARM UNIT
T BRAKE ARM SPRING
S BRAKE ARM SPRING

Fig.6-4-1 Removal of S & T Break Arm Unit

6-5. Supply Brake Solenoid Replacement and Adjustment

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the Bottom Panel.
4. Disconnect the connector P15 on the Mech I/F P.C.Board as shown in Figure 6-3-1.
5. Unscrew the 2 screws (A) and remove the Supply Brake Solenoid Base Unit as shown in Figure 6-5-1.
6. Unscrew the 2 screws (B) and remove the supply Brake Solenoid from Supply Brake Solenoid Base Unit as shown in Figure 6-10-1.

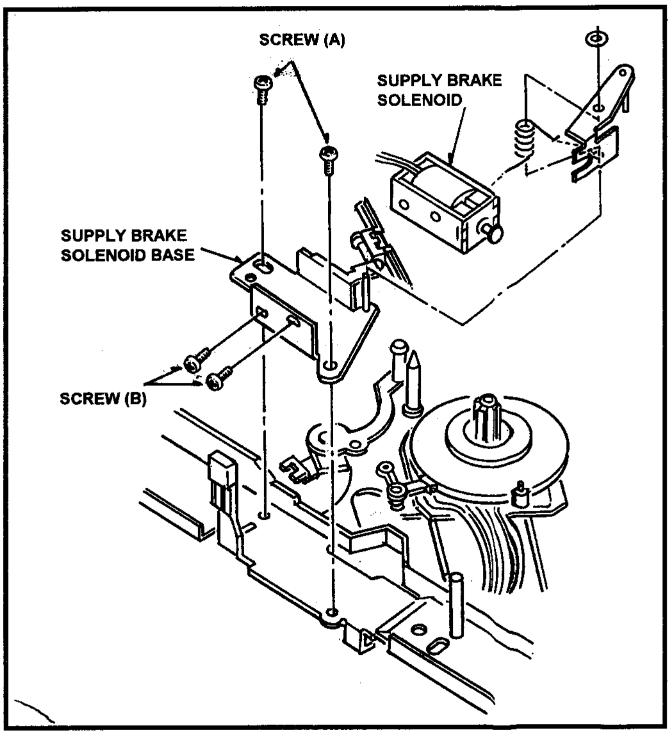

SCREW (A)
SUPPLY BRAKE SOLENOID
SUPPLY BRAKE SOLENOID BASE
SCREW (B)

Fig. 6-5-1 Removal of Supply Brake Solenoid

(Installation)

1. Install the new supply Brake Solenoid follow the removal steps in reverse order.

Note: Hang on the Supply Brake Spring as shown in Figure 6-6-1.

2. Adjustment is required after installation.

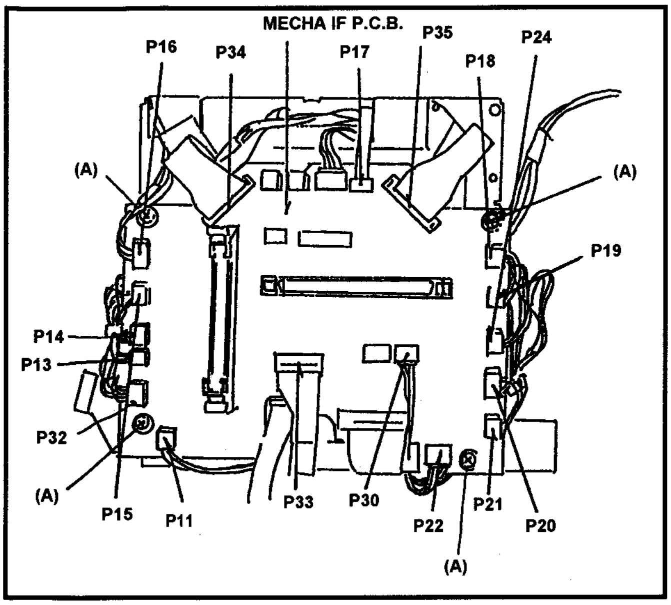

MECHA IF P.C.B.
P16
P34
P17
P35
P24
P18
(A)
(A)
P19
P14
P13
P32
(A)
P15
P11
P33
P30
P22
P21
P20
(A)

Fig. 6-3-1 Connection of S & T Reel Rotor Unit

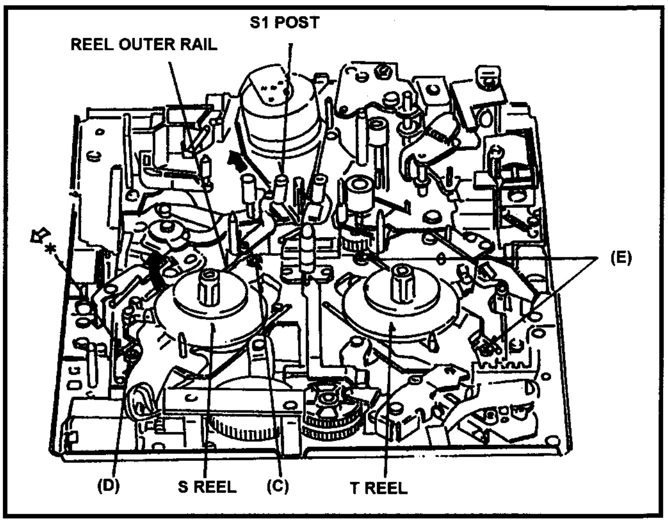

S1 POST
REEL OUTER RAIL
(E)
(D)
S REEL
(C)
T REEL

Fig.6-3-2 Removal of S & T Reel Rotor Unit

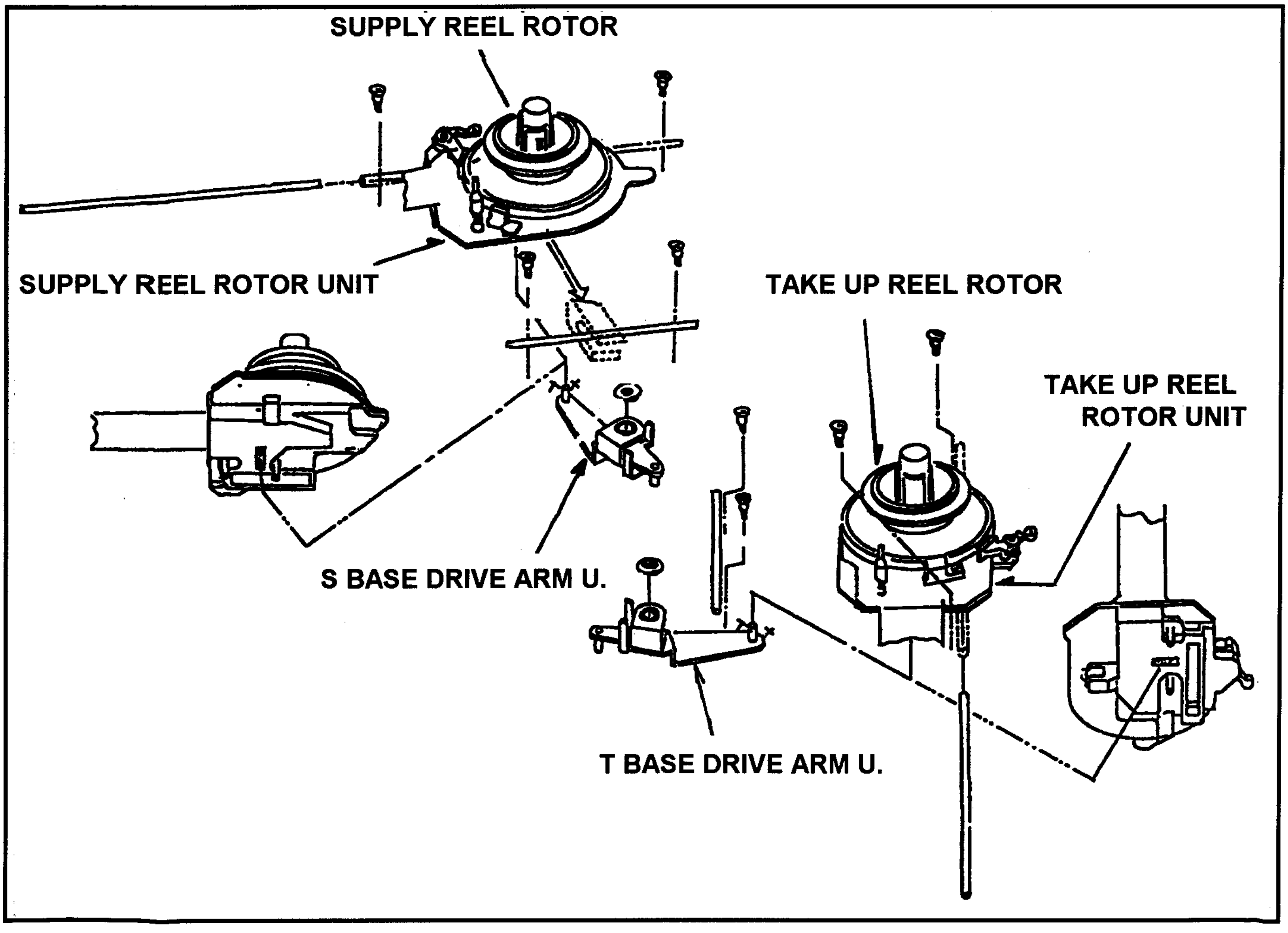

SUPPLY REEL ROTOR
SUPPLY REEL ROTOR UNIT
TAKE UP REEL ROTOR
TAKE UP REEL ROTOR UNIT
S BASE DRIVE ARM U.
T BASE DRIVE ARM U.

Fig.6-3-3 Installation of S & T Reel Rotor Unit

6-3. Supply Reel Rotor Unit and Take Up Reel Rotor Unit Replacement

(Removal)

1. Remove the Top Panel (Refer to item [2-1. Removal of Top Panel]).
2. Remove the Front Loading Unit (Refer to item [2-5. Removal of Front Loading Unit]).
3. Remove the Bottom Panel (Refer to item [2-2. Removal of Bottom Panel]).
4. Disconnect the connector P34 and P35 on the Mech I/F P.C.Board as shown in Figure 6-3-1.
5. Move the S1 post to loading direction by manual ejecting method until the screw (C) can removing position.
6. Confirm the supply and Take Up Brake are not release.
7. Press the iron core of M stopper solenoid to release the M stopper.
8. Remove the 4 screws (C), (D) and (E) as shown in Figure 6-3-2.
9. Remove the Supply and Take Up Reel Rotor Unit and Reel Outer Rail.

   Note: Memorized the groove position of Reel Base, which inserted the pin of Drive Arm Unit.

(Installation)

1. Through in the Reel Outer Rail to New Supply and Take Up Reel Rotor Unit.
2. Hang on the Reel Rotor Unit to Reel Inner Rail and Install the Reel Rotor Unit then the pin of Drive Arm Unit should be matched with groove position of Reel Base as shown in Figure 6-3-3.
3. Install the 4 screws (C), (D) and (E).
4. Confirm that the Reel Rotor Unit moving smoothly on the Rail by hard.
5. Move the Reel Rotor Unit to front side by hand and then pull up the iron core of M stopper solenoid for operating M stopper.
6. Set the unloading condition by turn the Emergency shaft counter-clockwise.
7. Connect the Flexible Cable to Connector P34 and P35 on the Mech I/F P.C.Board.
8. Adjust the Motor Torque Offset value (Refer to item 4-1 of section 4).
9. Confirm that the Tension value on playback mode (Refer to item 5-11).

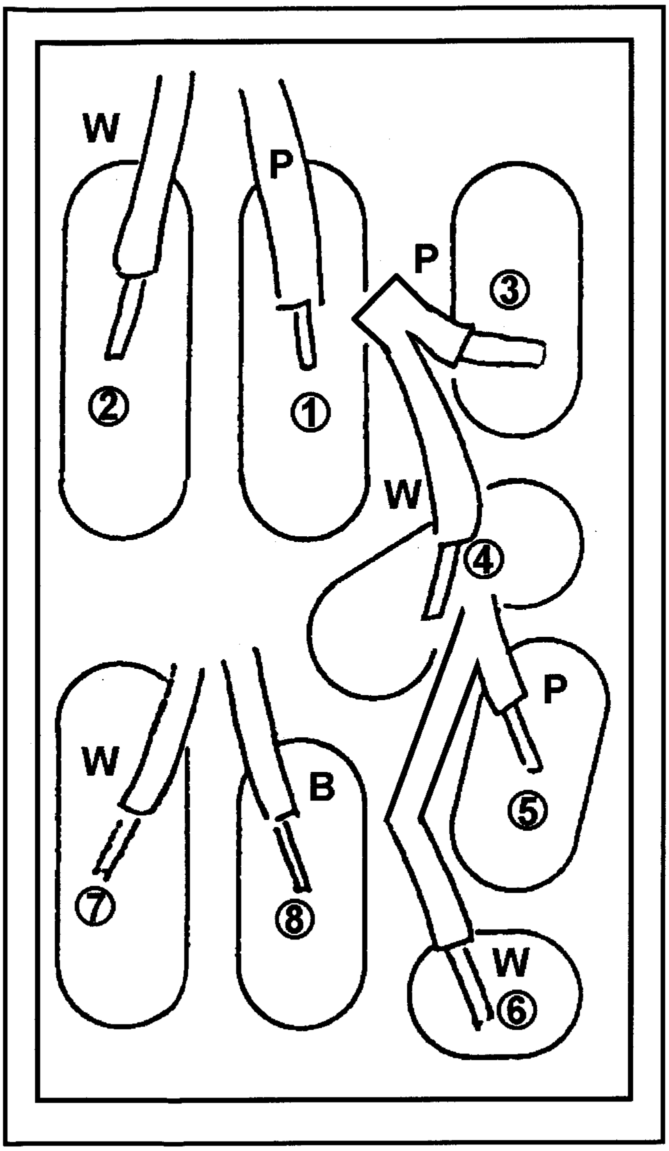
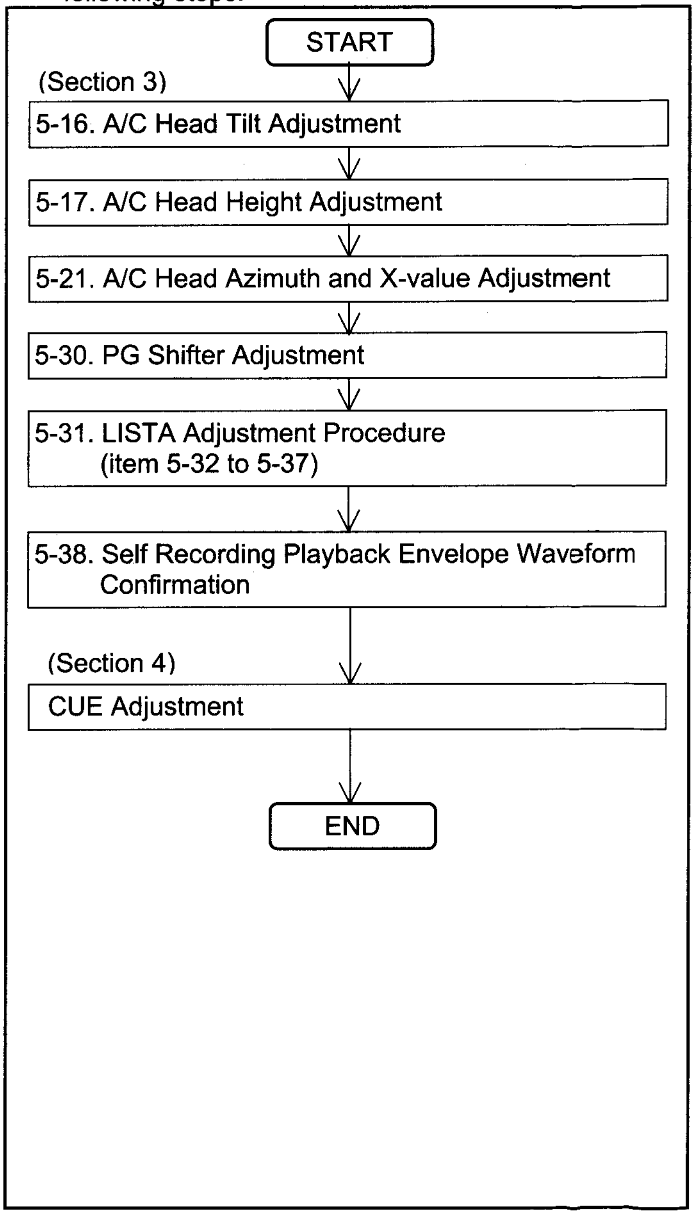

W
P
P
③
②
①
W
④
P
W
B
⑤
⑦
⑧
W
⑥

Fig. 6-2-3

A/C Head Side	Cable Color		Connector No.
1	PINK	YELLOW	P1
2	WHITE		
3	PINK	RED	
4	WHITE		
5	PINK	GREEN	
6	WHITE		
7	WHITE	YELLOW	P30
8	BLACK		

6-2-2. Adjustment Flowchart After A/C Head Replacement

1. After installing, Mechanical and Electrical Adjustments should be performed.
   NOTE: The **hex screw (B)** is kept loose until the A/C Head Height Adjustment is completed.
2. After replacing the A/C Head, perform the following steps.


START
(Section 3)
5-16. A/C Head Tilt Adjustment
5-17. A/C Head Height Adjustment
5-21. A/C Head Azimuth and X-value Adjustment
5-30. PG Shifter Adjustment
5-31. LISTA Adjustment Procedure
(item 5-32 to 5-37)
5-38. Self Recording Playback Envelope Waveform Confirmation
(Section 4)
CUE Adjustment
END

6-2. A/C Head Replacement

6-2-1. Replacement

※ Required tools:
Nut Driver (5.5m/m)(VFK1150)
Hex Driver (VFK1148)
Hex Wrench (VFK1190)

(Removal)

1. Remove the Top Plate.
2. Loosen the hex. screw (B) and remove the Nut (C). Pick up the Head Height Adjustment Spring and then remove the A/C Head Unit as shown in Figure
   Point: Memorize the height of Nut (C) before removing the Nut (C),

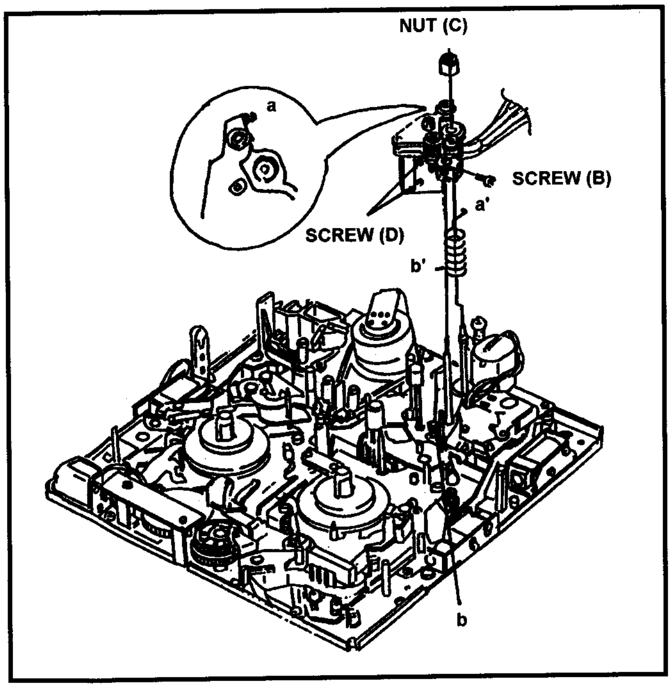


Fig. 6-2-1

3. Remove the 2 screws (A). and disconnect the 2 connectors P1 on the A/C Head I/F P.C.Board and P30 on the Mech I/F P.C.Board, and then remove the A/C Head from the A/C Head Plate.
4. Remove 2 screws (D) to remove the Shield Cover as shown in Figure 6-2-1.
5. Unsolder the lead wires as shown in Figure 6-2-3.

Note: When unsolder the lead wires, do not unsolder all at the same time.)

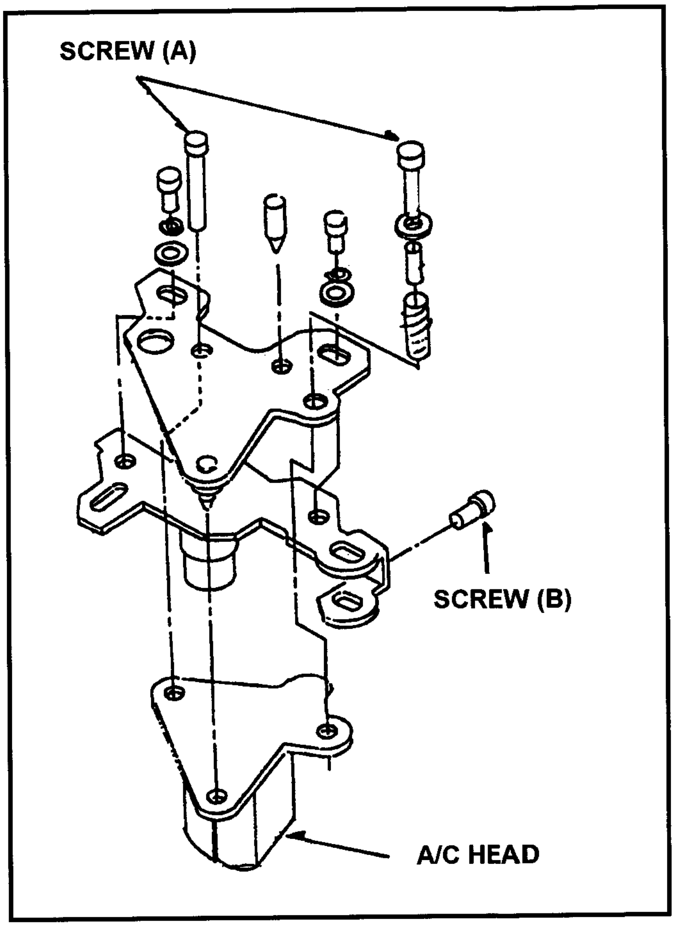


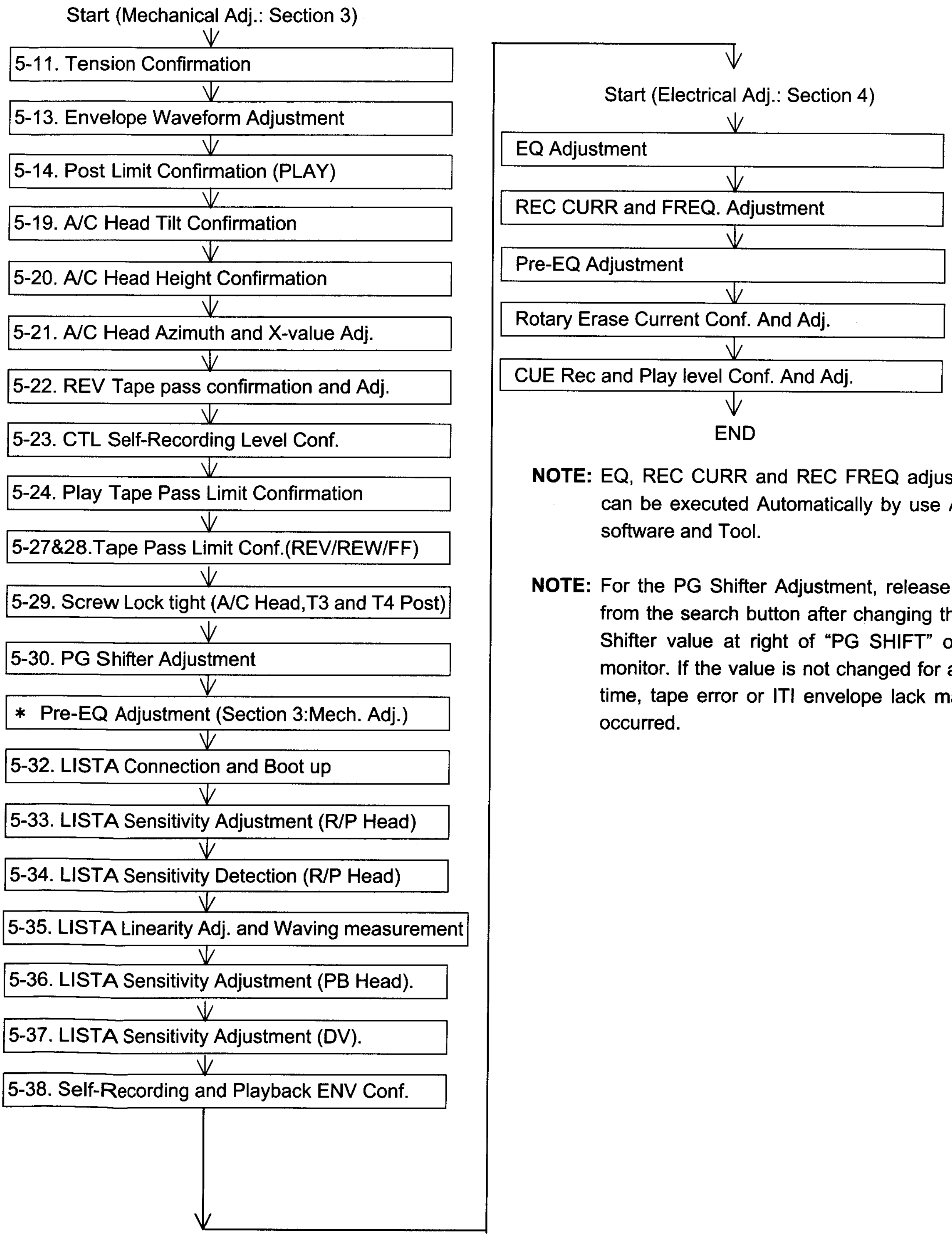
Fig. 6-2-2

(Installation)

1. Remove the Shield Case from the New A/C Head and solder the lead wires to New A/C Head (Refer to Figure 6-2-3).
2. Re-install the shield case to A/C Head.
3. Install the A/C Head to A/C Head Plate and tighten 2 screws (A) so that A/C Head is parallel to A/C Head Plate.
4. Install the A/C Head Unit.
5. Put on the Head Height Adjustment Spring and tighten the Nut (C).
6. Clean the surface of the A/C Head.
7. Perform the A/C Head adjustment.

6-1-4. Adjustment Flow Chart after Cylinder Unit Replacement

1. Adjust following items after Cylinder Unit replacement.


Start (Mechanical Adj.: Section 3)
5-11. Tension Confirmation
5-13. Envelope Waveform Adjustment
5-14. Post Limit Confirmation (PLAY)
5-19. A/C Head Tilt Confirmation
5-20. A/C Head Height Confirmation
5-21. A/C Head Azimuth and X-value Adj.
5-22. REV Tape pass confirmation and Adj.
5-23. CTL Self-Recording Level Conf.
5-24. Play Tape Pass Limit Confirmation
5-27&28.Tape Pass Limit Conf.(REV/REW/FF)
5-29. Screw Lock tight (A/C Head,T3 and T4 Post)
5-30. PG Shifter Adjustment
* Pre-EQ Adjustment (Section 3:Mech. Adj.)
5-32. LISTA Connection and Boot up
5-33. LISTA Sensitivity Adjustment (R/P Head)
5-34. LISTA Sensitivity Detection (R/P Head)
5-35. LISTA Linearity Adj. and Waving measurement
5-36. LISTA Sensitivity Adjustment (PB Head).
5-37. LISTA Sensitivity Adjustment (DV).
5-38. Self-Recording and Playback ENV Conf.
Start (Electrical Adj.: Section 4)
EQ Adjustment
REC CURR and FREQ. Adjustment
Pre-EQ Adjustment
Rotary Erase Current Conf. And Adj.
CUE Rec and Play level Conf. And Adj.
END

NOTE: EQ, REC CURR and REC FREQ adjustment can be executed Automatically by use AUTO software and Tool.

NOTE: For the PG Shifter Adjustment, release hand from the search button after changing the PG Shifter value at right of "PG SHIFT" on the monitor. If the value is not changed for a long time, tape error or ITI envelope lack may be occurred.

6-1-2. Cleaning Arm Unit Replacement

(Removal)

1. Unscrew the 2 screws (A) to remove the T1 Guide as shown in Figure 6-1-5.
2. Pick up the tip portion (B) of Cleaning Arm Unit and remove the spring from Cleaner Arm Unit. Then remove the Cleaning Arm Unit as shown in Figure 6-1-5.

(Installation)

1. Install the cleaning Arm Unit, then hang the spring on Cleaning Arm Unit.
2. Install the T1 Guide and tighten 2 screws (A).
3. Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated when the cylinder is rotated.
4. T1 Guide position adjustment should be performed.

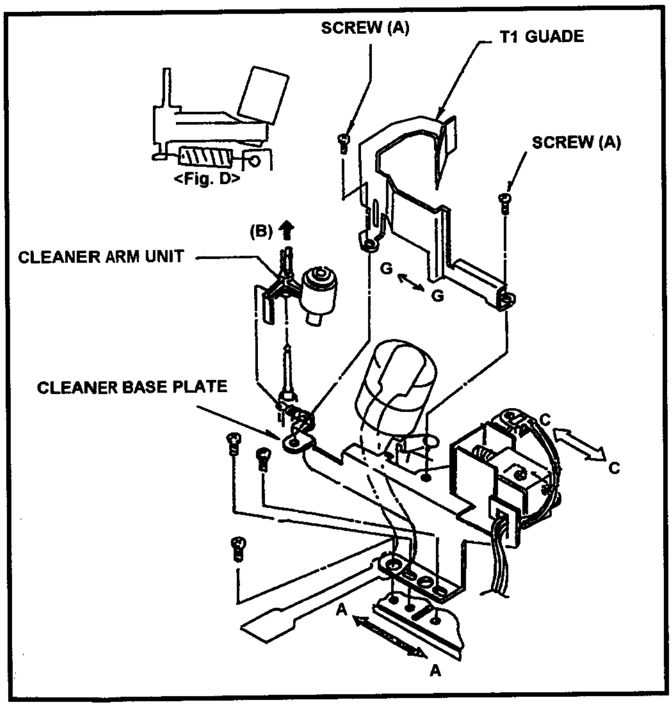


Fig. 6-1-5

6-1-3. T1 Guide Position Adjustment

Place the unit in Loading completion mode without tape.

< How to Make the No Tape Loading >

- Open the “ SERVO ADJUST ” menu in the Service menu.
- “Select the item “ T TORQUE ” and press the Search button for making the loading condition. And turn power to off.

1. Observe the clearance (B) between T1 Guide and T1 post as shown in Figure 6-1-6. And make sure that it is within 0.2 to 0.5mm.
2. If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving to arrow direction (G ⇔ G) so that the clearance (B) is within specification. And tighten the 2 screws (A).

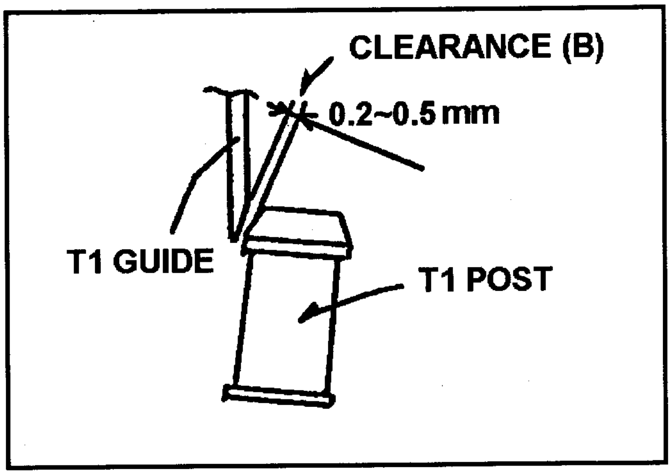


Fig. 6-1-6

6. Mechanical Parts Replacement and Adjustment Procedures

GENERAL

When mechanical parts are replaced, pay attention to the following notes.

1. Turn power off before replacing any part.
2. If any adjustment is required after replacing parts, perform the required adjustments.
3. Use proper fixture tools.
4. Make sure to clean the parts after replacement, Also when the mechanical parts are replaced, follow the replacement procedure.

6-1. Cylinder Unit Replacement

(Removal)

1. Remove the T1 Guide and Cleaning Arm Unit (Refer to item 11-8).
2. Disconnect the connector P5002 and P5003 on the Head Buffer board. And remove the screw, which is fixed with flexible cable.

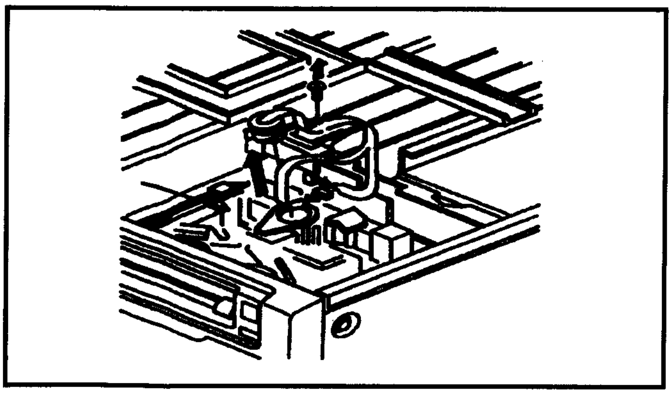


Fig. 6-1-1

Note: Be careful when removing the flexible cable from the connector. Refer to the way to remove the connector as shown in Figure 6-1-2.

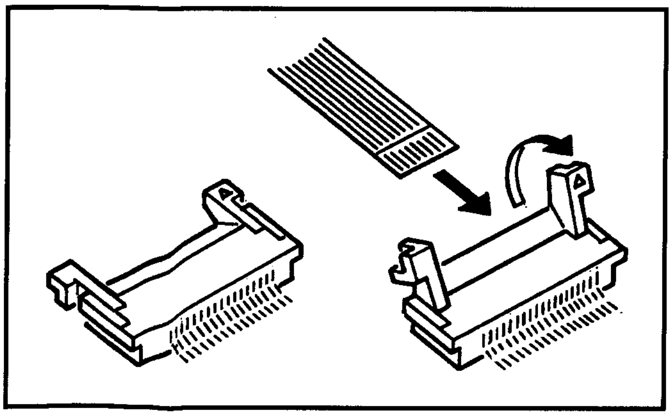


Fig. 6-1-2

3. Disconnect the connector P33 on Mech I/F P.C.Board at bottom of VTR. Then remove 3 screws (with spring) from the Cylinder unit, and remove the Cylinder unit without touching any mechanical part.

Note: Do not touch the cylinder surface by finger directly.

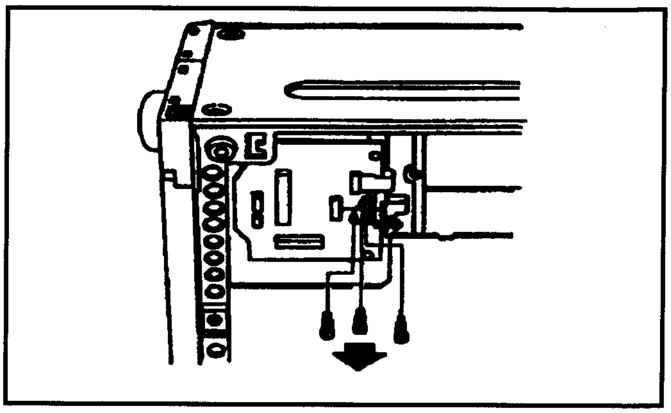


Fig. 6-1-3

(Installation)

1. Install a Cylinder unit as reverse order of its removal.

Note: Set the Mechanical Chassis pins are matched with the specified cylinder holes on the bottom of the cylinder.

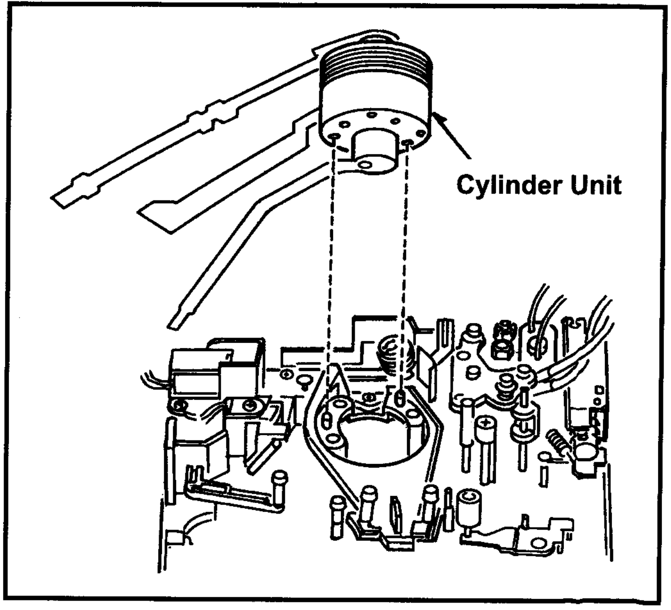


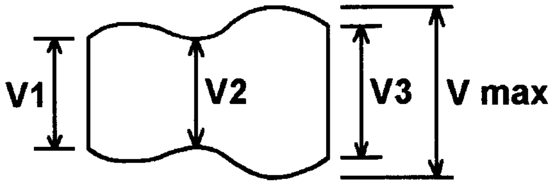
Fig. 6-1-4

2. After installing T1 Guide, T1 Guide position adjustment is necessary (Refer to adjustment procedure of item 6-1-3).

5-38. Self-Recording Playback Envelope Waveform Confirmation

SPEC	V1/Vmax、V2/Vmax、V3/Vmax ≧ 0.8
TEST POINT	TP16:R/P ENV (RF Board:H4) TP1 :TRIG/RP HSW (RF Board:H4)
ADJUSTMENT	S1 and T1 Post Height
MODE	PLAY
TAPE	Blank Tape
M.EQ	Oscilloscope
TOOL	VFK1149(Post Driver)

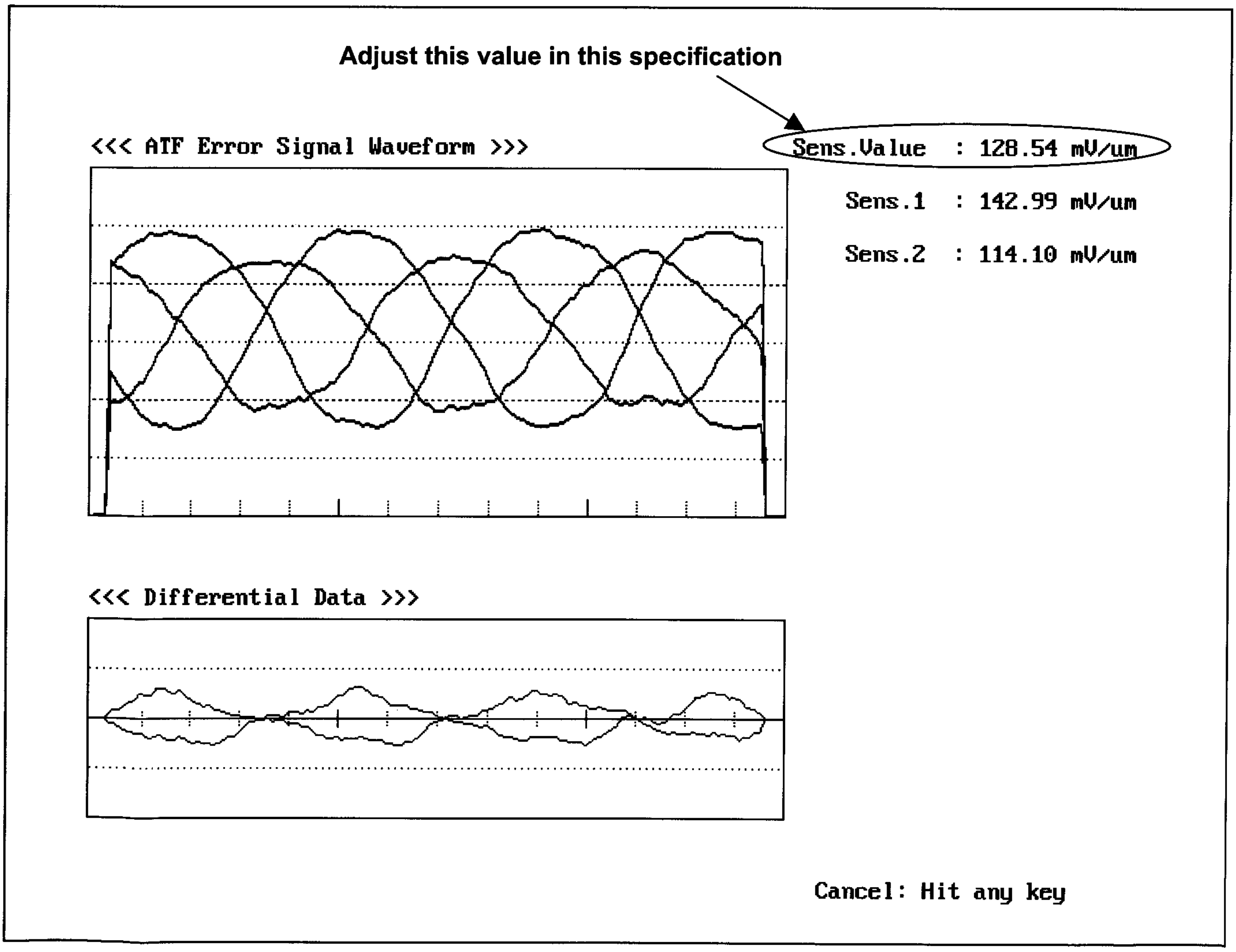
1. Record the color bar signal.
2. Play back the recorded portion and confirm that the envelope output is within specification
3. If out of specification, perform the Envelope Waveform and LISTA adjustment again.



5-37. LISTA Sensitivity Adjustment (DV Compatibility)

SPEC.	Sensitivity:130±30 (mV/um)
MODE	PLAY
TEST POINT	TP321 ATF ERR (SERVO Board:F1) TP233 PB HSW(SERVO Board:F1) TG510 GND (SERVO Board:F1)
ADJUSTMENT	A08:RP GAIN
TAPE	**NTSC:** VFM3581KM (LISTA) **PAL:** VFM3681KM (LISTA)

1. Connect the Test Point to clip of LISTA cable for ATF Error signal measurement.
2. Open the SERVO ADJUST menu on Service menu and select the EVR " A08:R/P GAIN ".
3. Playback the LISTA alignment tape.
4. Select the **"<6> ATF Error Signal Monitor" on** the LISTA main menu and after appear the message " 1.2% Speed... " , press ENTER key, then sensitivity value as real time and waveform appear on the screen as shown as figure below.
5. Adjust EVR " A08 R/P GAIN " so that the sensitivity value is within specification.
6. After finish this adjustment, press ESC key to exit to the main menu.



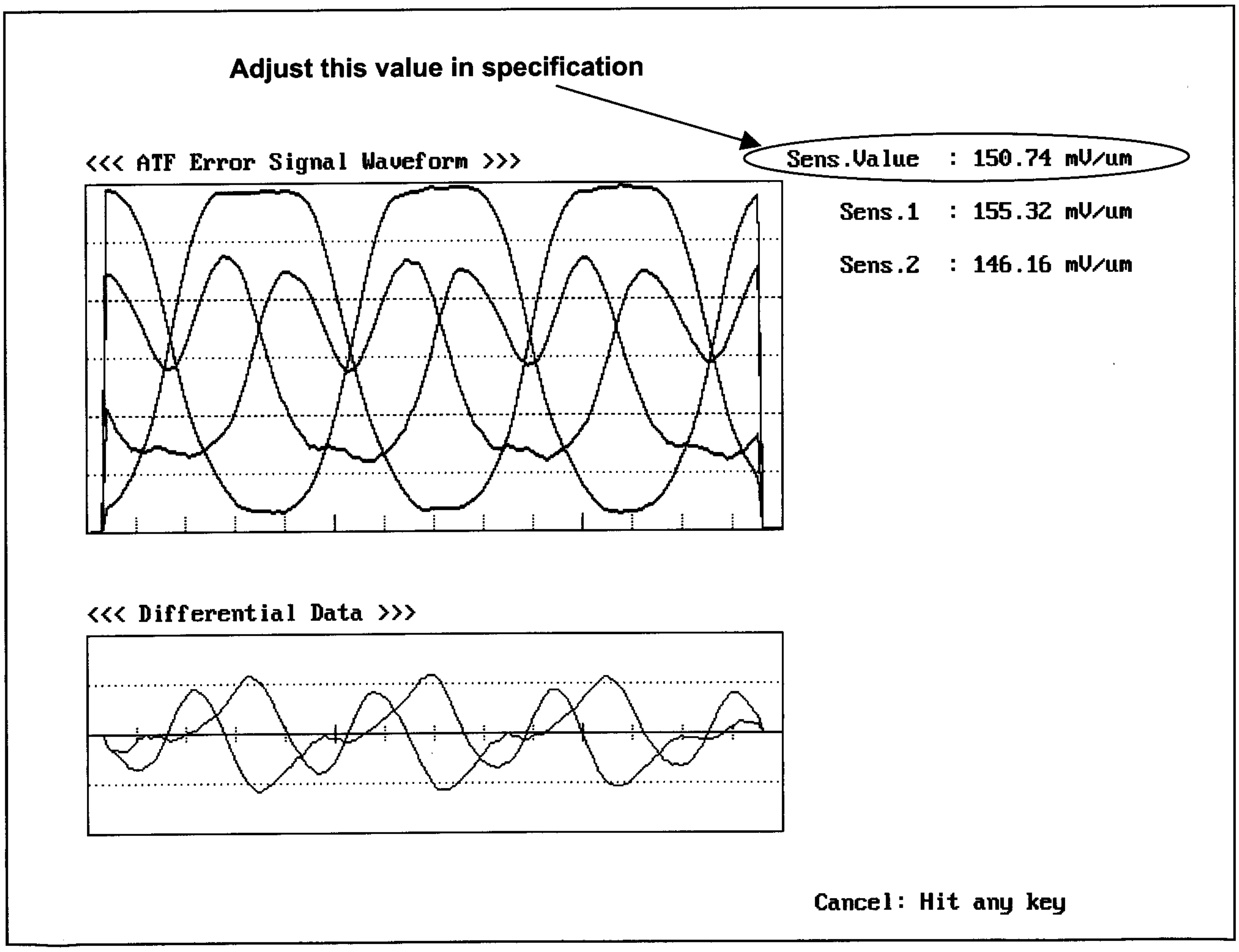
Adjust this value in this specification

```
<<< ATF Error Signal Waveform >>>          Sens.Value  : 128.54 mV/um

                                           Sens.1      : 142.99 mV/um

                                           Sens.2      : 114.10 mV/um

<<< Differential Data >>>

                                           Cancel: Hit any key
```

5-36. LISTA Sensitivity Adjustment (PB HEAD)

SPEC.	Sensitivity:150±15 (mV/um)
MODE	PLAY
TEST POINT	TP321 ATF ERR (SERVO Board:F1) TP232 PB HSW(SERVO Board:F1) TG510 GND (SERVO Board:F1)
ADJUSTMENT	A04:PB GAIN P
TAPE	**NTSC:** VFM3581KM (LISTA) **PAL:** VFM3681KM (LISTA)

1. Connect the Test Point to clip of LISTA cable for ATF Error signal measurement.
2. Open the SERVO ADJUST menu on Service menu and select the EVR " A04:PB GAIN P ".
3. Playback the LISTA alignment tape.
4. Select the "**<6> ATF Error Signal Monitor" on** the LISTA main menu and after appear the message " 1.2% Speed… " , press ENTER key, then sensitivity value as real time and waveform appear on the screen as shown as figure below.
5. Adjust EVR " A04 PB GAIN P " so that the sensitivity value is within specification.
6. After finish this adjustment, press ESC key to exit to the main menu.

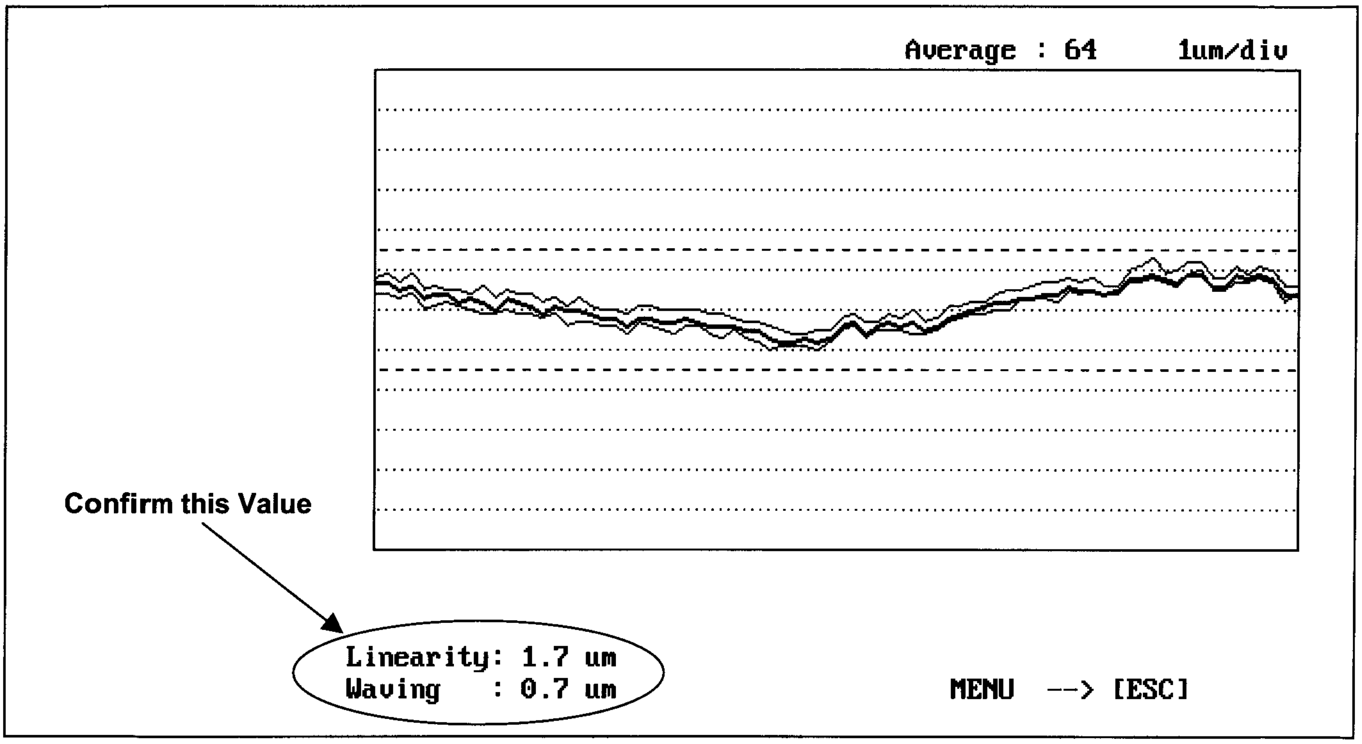


Adjust this value in specification

```
<<< ATF Error Signal Waveform >>>        Sens.Value  : 150.74 mV/um

                                         Sens.1      : 155.32 mV/um

                                         Sens.2      : 146.16 mV/um

<<< Differential Data >>>

                                         Cancel: Hit any key
```

∗ [Waving Measurement]

1. Press “SPACE “ key for make the Peak Hold during 30 seconds, when linearity is displayed.
2. After finish the Peak Hold, press “SHIFT” and “}” ,key simultaneously on the Key Board, then display the numerical values of 「Linearity」 and 「Waving」 on left lower portion of screen. And confirm the numerical values are in the specification. Also confirm the range of waving waveform is same quantity from entrance side to exit side. If the 「Linearity」 and 「Waving」 are out of specification and it caused by not enough limit of entrance or exit side of envelope, then adjust height of S1 and T1 post.
3. After this measurement is finished, press ESC key for return to main menu.



```
Average : 64      1um/div

Linearity: 1.7 um
Waving   : 0.7 um                    MENU  --> [ESC]
```

Confirm this Value

∗ NOTE: Saving of LISTA Data

The LISTA software can be saved linearity waveform and measurement value of linearity and waving as one file data to PC.

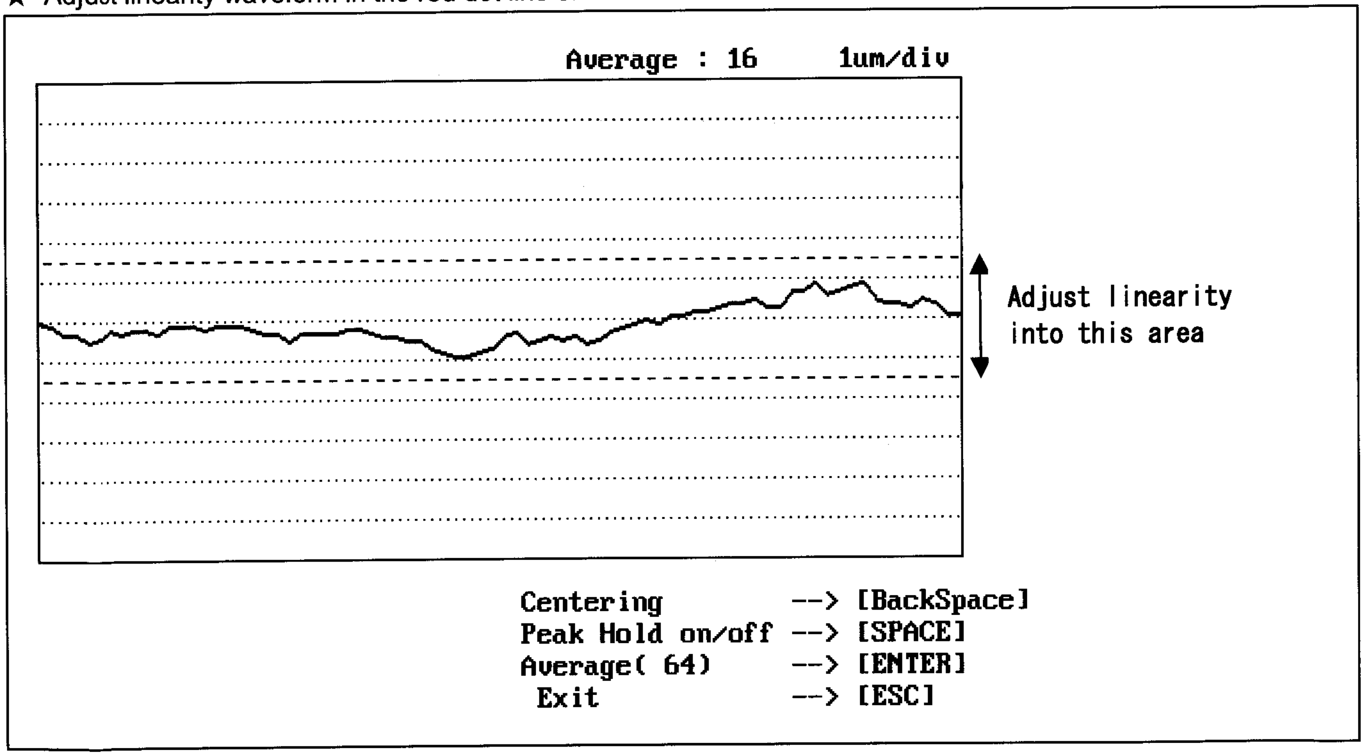
1. Basically this operation should be performed after linearity and waving measurement finished.
2. Select the item 「(3) Data Save/Load 」 on the LISTA main menu. And after open the menu select the item 「<1> Save」.
3. The linearity waveform as Peak Hold displayed on the screen. And after appeared message “File Name? “ on the screen, entry the File Name and Comment. File Name must be in 8 characters, and comment is must be in 20 characters. As comment, entry the Serial Number, VTR Model Number and Head Rotation Hours etc, for use management of linearity data of each VTR.
4. After completion of saving, select the item 「<2> Load」 on the 「(3) Data Save/Load」 menu, then appear the saved File Name on the screen. And select it previous saved file for confirm the waveform and numerical value displayed correctly. By press “SHIFT” and “}” ,key simultaneously on the Key Board., then display the numerical values of 「Linearity」 and 「Waving」 on left lower portion of screen.

5-35. LISTA Linearity Adjustment and Waving Measurement.

SPEC	Linearity: Less than 3um, Waving: Less than 1.5um
MODE	PLAY (EVR is select to " A07: RP LINEAR P ")
TEST POINT	TP321 ATF ERR (SERVO Board:F1) TP233 R/P HSW(SERVO Board:F1) TG510 GND (SERVO Board:F1)
ADJUSTMENT	S1 and T1 Post Height
TAPE	**NTSC:** VFM3581KM (LISTA) **PAL:** VFM3681KM (LISTA)

1. Open the SERVO ADJUST menu on Service menu and select the EVR " A07: RP LINEAR P "
2. Playback the LISTA alignment tape.
3. Select the item " (2) Linearity Measurement " on the LISTA main menu and display the linearity waveform.
4. When the waveform as shown as below figure is displayed on the screen, press the " BS (back space) " key for display the waveform to center of scale on the screen. And adjust height of S1 and T1 post by Post Driver so that the linearity waveform is become flat as possible, and it should be in the specification.

★ Adjust linearity waveform in the red dot line on the screen.



Adjust linearity into this area

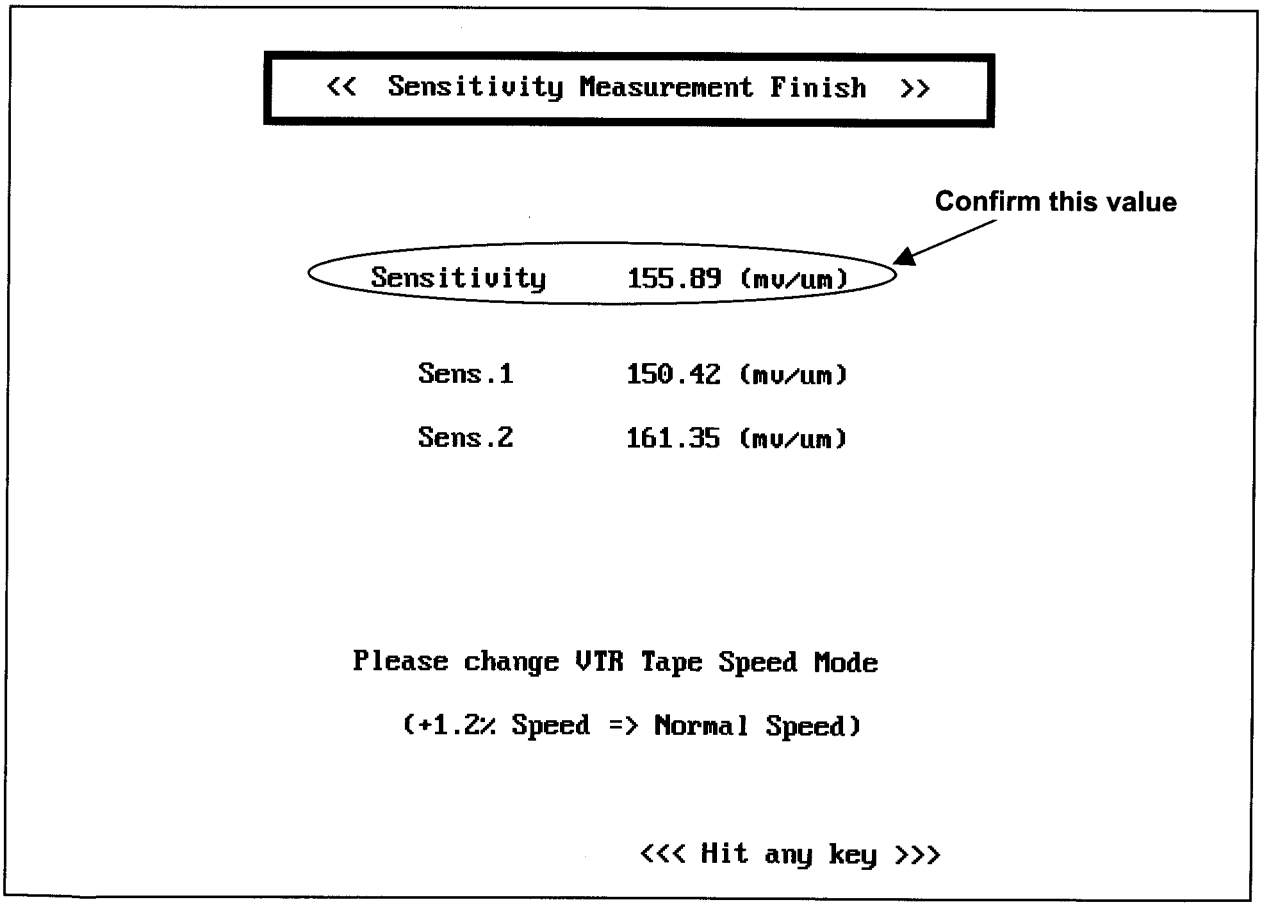
> ☆ **POINT:**
>
> The part of left side of waveform(entrance side) is adjusted by height of S1 post and part of right side of waveform(exit side) is adjusted by height of T1 post.
>
> Lower part of above waveform of figure is displayed lead on Cylinder.
>
> When the post driver is remove from upper part of post, linearity waveform is changed.
>
> After finish this adjustment, eject the tape and insert the tape again for confirm the shape of linearity waveform does not changed.

5. After finish the linearity adjustment, measure the numerical value of linearity and waving.

5-34. LISTA Sensitivity Detection (RP Head)

SPEC	Sensitivity:150±15 (mV/um)
MODE	PLAY
TEST POINT	TP321 ATF ERR (SERVO P.C.Board:F1) TP233 R/P HSW (SERVO P.C.Board:F1) TG510 GND(SERVO P.C.Board:F1)
ADJUSTMENT	------
TAPE	**NTSC:** VFM3581KM (LISTA) **PAL:** VFM3681KM (LISTA)

1. Open the SERVO ADJUST menu on Service menu and select the EVR " A06:RP GAIN P ".
2. Playback the LISTA alignment tape.
3. Select the " **<1>Sensitivity Measurement"** on the LISTA main menu and after appear the message " 1.2% that Speed... " , press ENTER key, then LISTA software start measurement of sensitivity value.
4. Confirm the sensitivity value is within specification, when the message << Sensitivity Measurement Finish>> and 「Sensitivity = numerical value」 are displayed on the screen.
5. If out of specification, repeat the steps 3 and 4.
6. If still out of specification, perform the "LISTA Sensitivity Adjustment again.



```
<<  Sensitivity Measurement Finish  >>

Sensitivity     155.89 (mv/um)

Sens.1          150.42 (mv/um)

Sens.2          161.35 (mv/um)

Please change VTR Tape Speed Mode

(+1.2% Speed => Normal Speed)

<<< Hit any key >>>
```

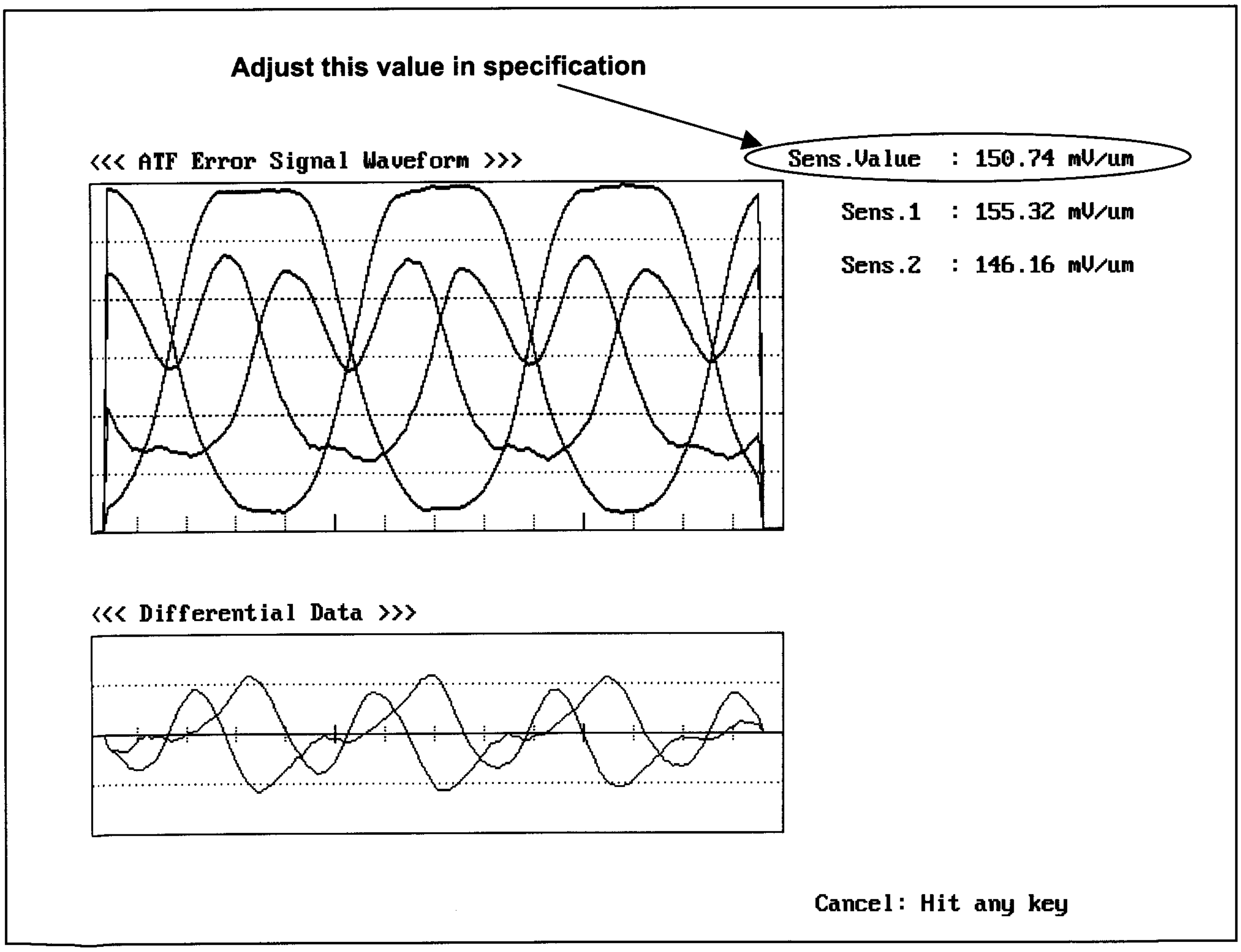
Confirm this value

5-33. LISTA Sensitivity Adjustment (R/P Head)

SPEC.	Sensitivity:150±15 (mV/um)
MODE	PLAY
TEST POINT	TP321 ATF ERR (SERVO Board:F1) TP233 R/P HSW (SERVO Board:F1) TG510 GND(SERVO Board:F1)
ADJUSTMENT	A06:RP GAIN P (SERVO ADJUST)
TAPE	**NTSC:** VFM3581KM (LISTA) **PAL:** VFM3681KM (LISTA)

Note: Before perform the Sensitivity adjustment, perform the PRE-EQ adjustment for adjust ENV Level (L/R) on RF AMP (H4) Board.(Refer to Sec. 4 :electrical adjustment).

1. Connect the Test Point to clip of LISTA cable for ATF Error signal measurement.
2. Open the SERVO ADJUST menu on Service menu and select the EVR " A06:RP GAIN P ".
3. Playback the LISTA alignment tape.
4. Select the "**<6> ATF Error Signal Monitor**" on the LISTA main menu and after appear the message " 1.2% Speed... " , press ENTER key, then sensitivity value as real time and waveform appear on the screen as shown as figure below.
5. Adjust EVR " RP GAIN P " so that the sensitivity value is within specification.
6. After finish this adjustment, press ESC key to exit to the main menu.



Adjust this value in specification

```
<<< ATF Error Signal Waveform >>>          Sens.Value  : 150.74 mV/um

                                           Sens.1      : 155.32 mV/um

                                           Sens.2      : 146.16 mV/um

<<< Differential Data >>>

                                           Cancel: Hit any key
```

< How to Entry the Attachment Data of Alignment Tape >

1. Select the item “ <4> Alignment Tape “ on the main menu of the LISTA software.
2. Select the item “ <2> ENTRY ” on the alignment tape menu.
3. After display the screen of “ << Alignment tape Data Entry >> “, first input the Serial number follow the printed number on the tape label. And input the number “0” or “1” for select the PAL/NTSC. And after that for entry the tape type, in case of DVCPRO input to “0” , in case of DV input to “1”.
4. After select the Tape type, the frame for input the DATA and CHECK SUM appeared on the screen. Input the numerical value in numerical order on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the sheet.
5. After entry the data, select “ <1> SELECT “ on the Alignment Tape menu and select the serial number of the alignment tape.

<<Alignment Tape Data Entry>>　　Serial No.0596003(NTSC)　　18um

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

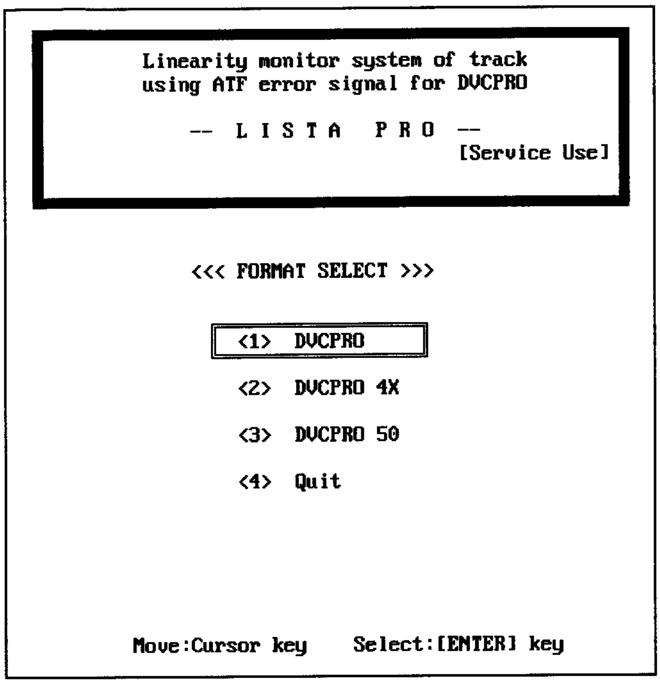
[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

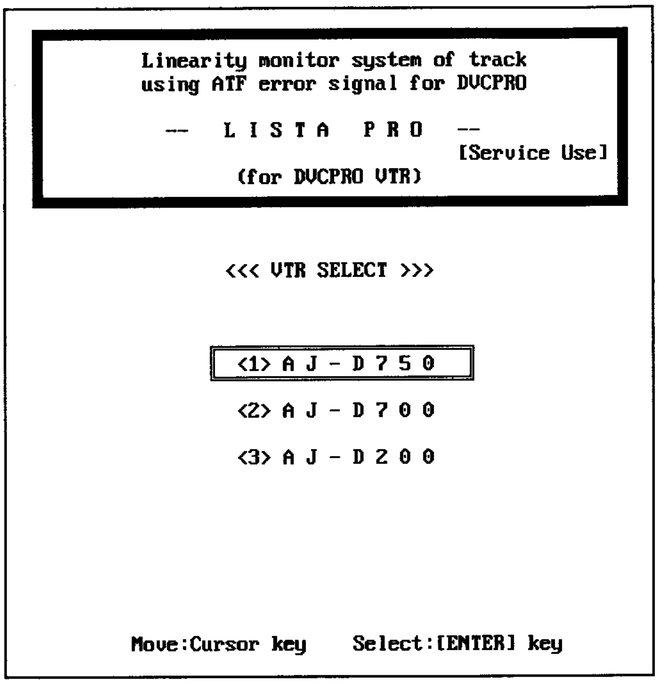
[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6

4. After boot up LISTA software, select the item " DVCPRO " for format select on the menu.
5. Select the item " AJ-D750 " for selected model on the menu (AJ-D440/450 is equivalent to AJ-D750).



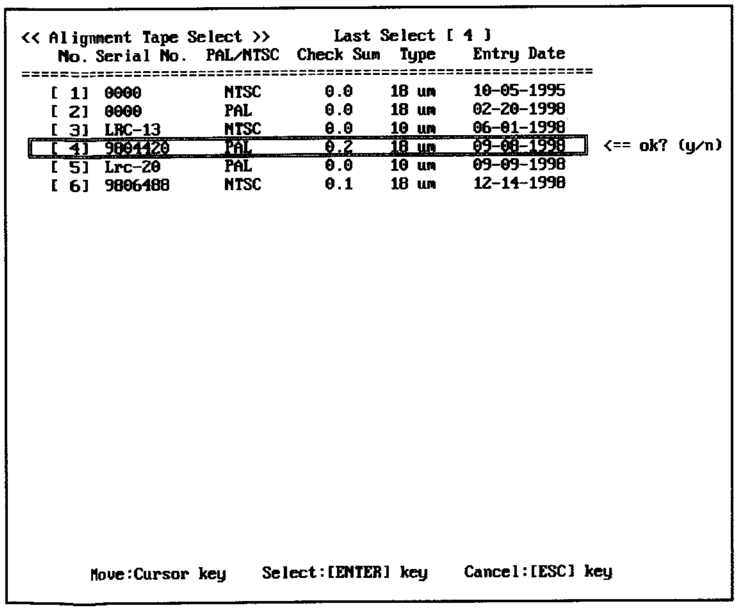
```
Linearity monitor system of track
using ATF error signal for DVCPRO

-- L I S T A   P R O --
                          [Service Use]

<<< FORMAT SELECT >>>

<1>  DVCPRO
<2>  DVCPRO 4X
<3>  DVCPRO 50
<4>  Quit

Move:Cursor key     Select:[ENTER] key
```



```
Linearity monitor system of track
using ATF error signal for DVCPRO

--  L I S T A   P R O  --
                          [Service Use]
          (for DVCPRO VTR)

<<< VTR SELECT >>>

<1> A J - D 7 5 0
<2> A J - D 7 0 0
<3> A J - D 2 0 0

Move:Cursor key     Select:[ENTER] key
```

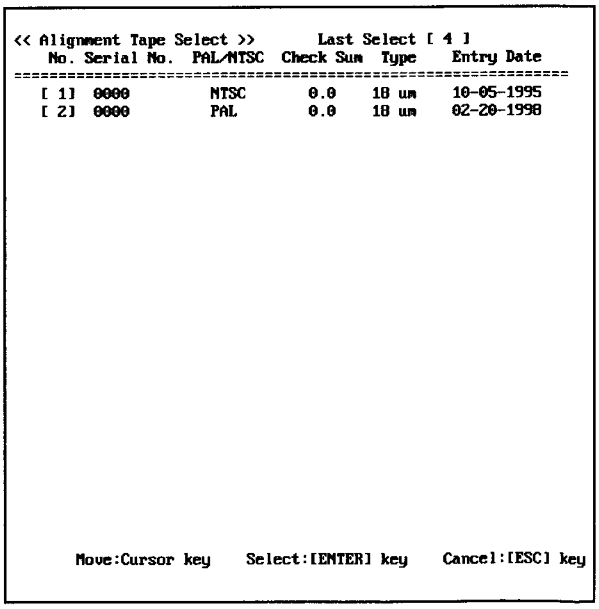
6. Next select the Serial number of the alignment tape on the screen. In case of LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select item " <4> Alignment Tape " for entry the data on the attachment sheet, which is enclosed of alignment tape.
7. In case of LISTA software have resisted data of alignment tape, select the serial number of Alignment tape, then appear message "ok?(y/n)" on the screen. And press " Y " or " ENTER " key, then LISTA main menu is display on screen.

≪In case of Alignment tape resisted≫



```
<< Alignment Tape Select >>      Last Select [ 4 ]
   No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
=============================================================
   [ 1]  0000        NTSC       0.0     18 um   10-05-1995
   [ 2]  0000        PAL        0.0     18 um   02-20-1998
   [ 3]  LRC-13      NTSC       0.0     10 um   06-01-1998
   [ 4]  9804420     PAL        0.2     18 um   09-08-1998   <== ok? (y/n)
   [ 5]  Lrc-20      PAL        0.0     10 um   09-09-1998
   [ 6]  9806488     NTSC       0.1     18 um   12-14-1998

Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

≪In case of Alignment tape does not resisted≫



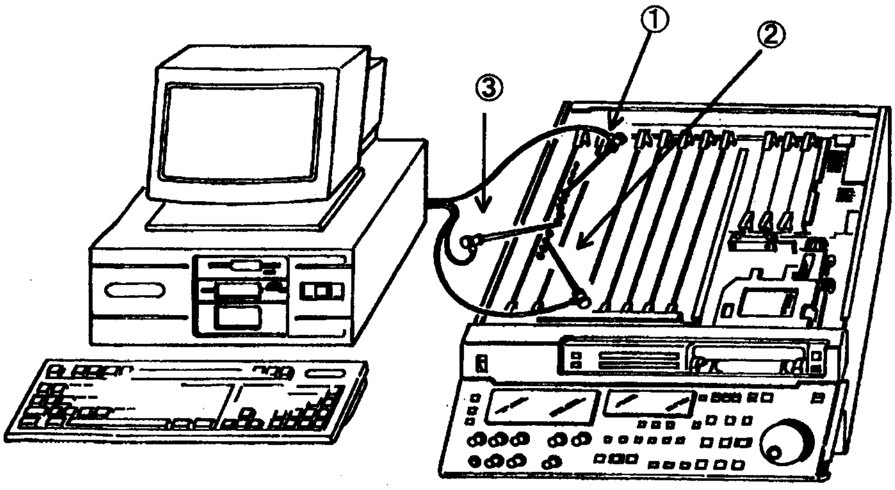
```
<< Alignment Tape Select >>      Last Select [ 4 ]
   No. Serial No.  PAL/NTSC  Check Sum  Type    Entry Date
=============================================================
   [ 1]  0000        NTSC       0.0     18 um   10-05-1995
   [ 2]  0000        PAL        0.0     18 um   02-20-1998

Move:Cursor key     Select:[ENTER] key     Cancel:[ESC] key
```

5-32. LISTA Connection and Boot Up

TEST POINT	TP321 ATF ERR (SERVO Board:F1) TP233 PB HSW (SERVO Board:F1) TP232 R/P HSW (SERVO:Board:F1) TG510 GND (SERVO Board:F1)
M.EQ	P/C (AD Board should be installed),Oscilloscope
TAPE	**NTSC:** VFM3581KM (LISTA) **PAL:** VFM3681KM (LISTA)
TOOL	VFK1481(LISTA Software),VFK1186(LISTA Cable)

1. Connect the LISTA Cable to A/D board on PC.
2. Connect the Clips of LISTA Cable to test point on Servo Board as follow as below.
   ①.ATF : TP321 (ATF error)
   ②.HSW : TP233 (HSW:RP) or TP232 (HSW:PB)
   ③.GND : TG510 (GND)

CONNECTION



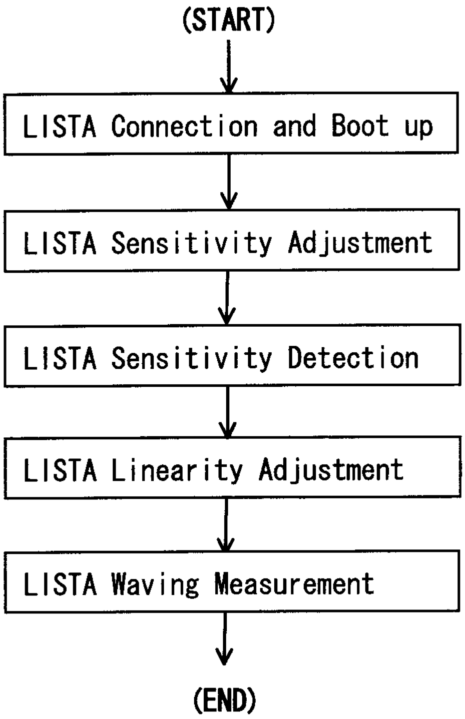
3. Boot up the LISTA software on DOS mode.

★ Install and Boot up.

All files on the floppy disk (VFK1481) copy to created directly on PC(**i.e.** C:¥LISTA).

Type "LISTA" and press ENTER Key, then boot up the LISTA software VFK1481

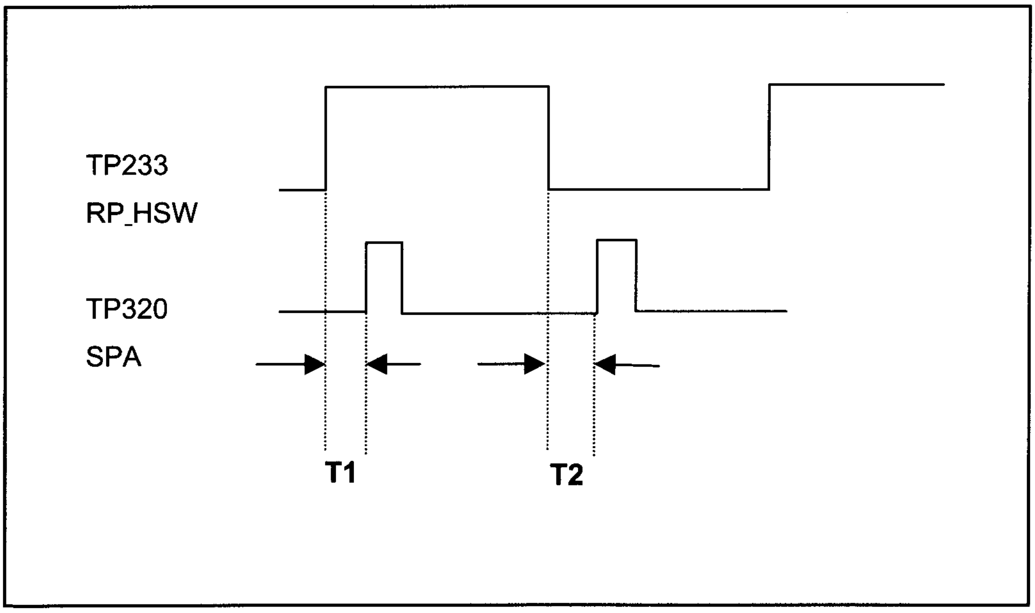
5-31. LISTA Adjustment Procedure.


(START)
LISTA Connection and Boot up
LISTA Sensitivity Adjustment
LISTA Sensitivity Detection
LISTA Linearity Adjustment
LISTA Waving Measurement
(END)

5-30. PG SHIFTER Adjustment

SPEC.	T1, T2 = 126.4μsec ± 2μsec.
MODE	PLAY
TEST POINT	TP320 SPA (SERVO Board:F1) TP233 R/P HSW (SERVO Board:F1)
ADJUSTMENT	A01:PG SHIFTER (EVR on SERVO ADJUST menu)
M.EQ	Oscilloscope
TAPE	**NTSC:** VFM3580KM **PAL:** VFM3680KM

1. Open the SERVO ADJUST menu on the Service menu and select the item " A01:T PG SHIFTER ".
2. Playback the Alignment tape.
3. Press the (◀) or (▶) button and keep it until the numerical value of "A01:PG SHIFTER" are renewed.
4. Connect the scope toTP233 and TP320. Trigger the scope by TP233. Then it is displayed as shown in figure.
5. Confirm that the period of T1 and T2 in specification (126.4μsec±2μsec).

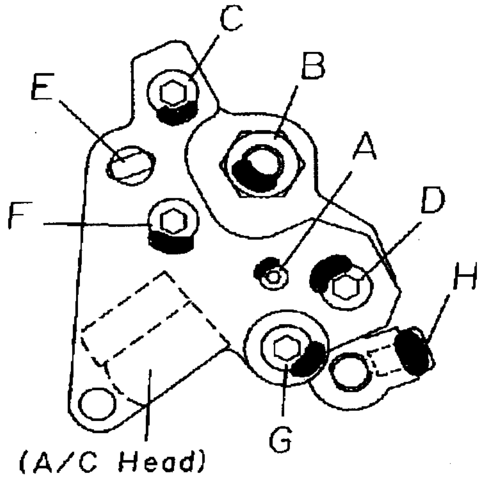


5-29. Screw Lock Tight of A/C Head and T3､T4 Post

[Screw Lock Tight of A/C Head]

	SCREW A	OTHER SCREW
Lock Tight Grew Quantity	1/3 of the screw	1/3 of the screw

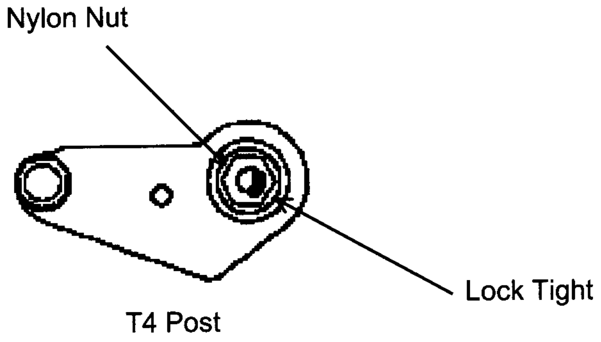
1. Fix the screw by the Lock Tight Grew after adjustment..
2. Before adjustment melt the Grew.



[Screw Lock Tight of T3 and T4 Post]

	T3 Post	T4 Post
Lock tight grew quantity	1/4 of the screw	1/4 of the screw

1. After adjustment, attach the lock tight grew at the Nylon nut..
2. Before adjustment, melt the Grew.



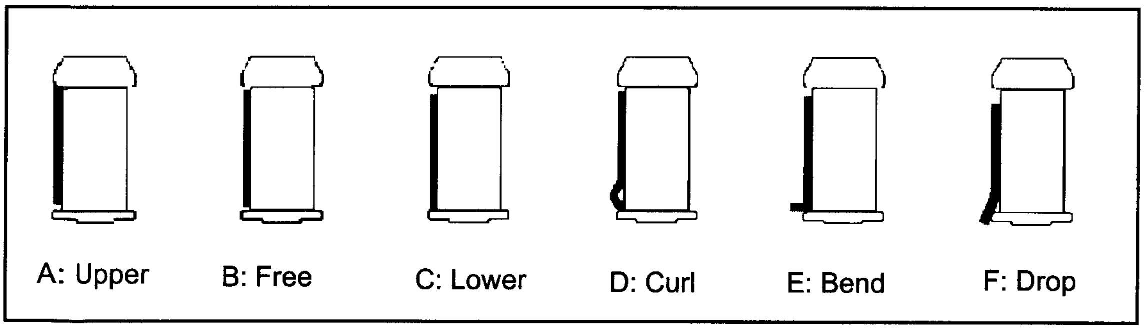
5-28. FF、REW Tape Pass Limit Confirmation

SPEC.	Each Post limit shown in table.
MODE	FF,REW
TAPE	M cassette (MP tape) tape. Tape beginning and end portion

Post Name	Tape Limit(Refer to figurte)					
	A	B	C	D	E	F
S5 Post	O	O	O	X	X	X
S4(Tension) Post	X	O	O	X	X	X
S1 Post	O	X	X	X	X	X
T1 Post	O	O	O	X	X	X
T3 Post	O	O	O	X	X	X
T4 Post	O	O	O	X	X	X

1 Place unit into FF and REV mode and confirm the each post limits is within specification.

2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).

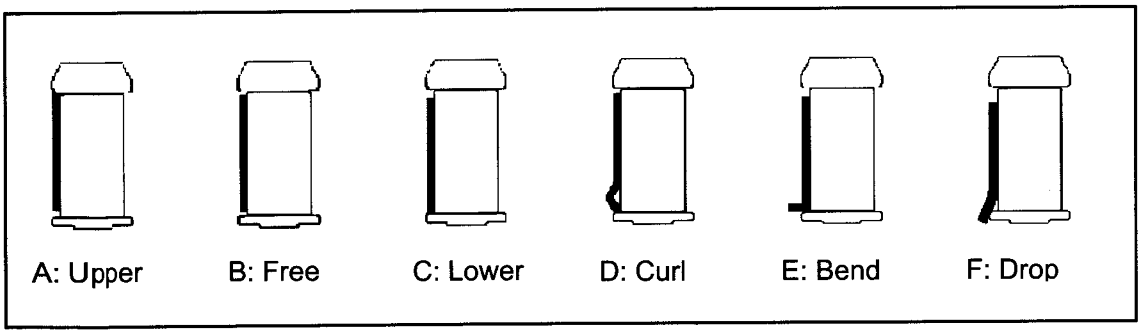


5-27. Tape Pass Limit Confirmation

SPEC	Each Post limit shown in table.
MODE	REV
TAPE	M cassette (MP tape) tape. Tape beginning and end portion

Post Name	Tape Limit(Refer to figure)					
	A	B	C	D	E	F
S5 Post	O	O	O	X	X	X
S4(Tension) Post	X	O	O	X	X	X
S1 Post	O	X	X	X	X	X
T1 Post	O	O	O	X	X	X
T3 Post	X	X	O	X	X	X
T4 Post	X	X	O	X	X	X

1. Place unit into REV mode and confirm the each post limits is within specification.
2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).



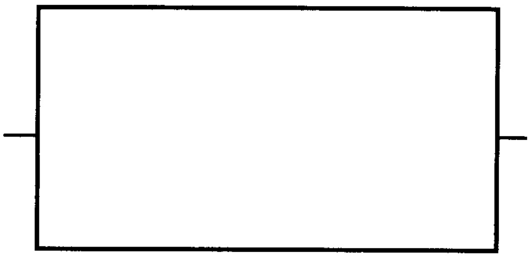
5-26. Confirmation of Play Start Envelope

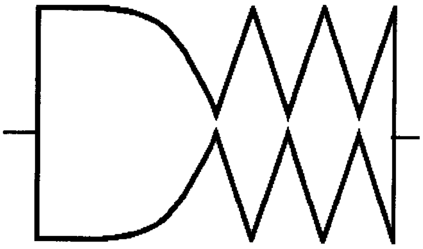
TEST POINT	TP16:RP ENV (RF AMP Board:H1)
MODE	REW/REV → PLAY Loading completion → PLAY FF → PLAY
TAPE	L cassette(123min、Recorded tape) Tape beginning portion
M.EQ	Oscilloscope

Note: This adjustment must be done after Envelope Waveform Adjustment.

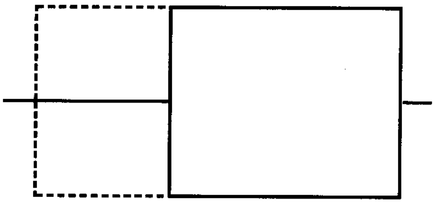
1. Confirm that the envelope appears immediately, when the mode is changed from REW to PLAY、REV to PLAY、FF to PLAY、and Lording to PLAY mode.
2. If out of spec, adjust S4 post height.

OK





NG



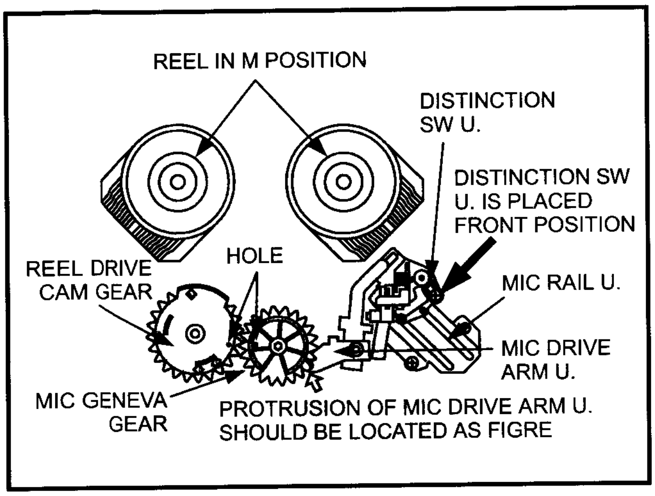

REEL IN M POSITION
DISTINCTION SW U.
DISTINCTION SW U. IS PLACED FRONT POSITION
REEL DRIVE CAM GEAR
HOLE
MIC RAIL U.
MIC DRIVE ARM U.
MIC GENEVA GEAR
PROTRUSION OF MIC DRIVE ARM U. SHOULD BE LOCATED AS FIGRE

Fig.6-22-3 Gear Phase Adjustment

5. Install the Reel Drive Cam Gear and hole of Reel Drive Cam Gear should be matched with the hole of MIC Geneva Gear as shown in Figure 6-22-3.
6. Install the Cut Washer (A), (B) and (C) as shown in Figure 6-22-1.

※Point of Adjustment

1) Reel in M-Seze position.
2) Set the REC Inhibit SW in front position of Distinction SW Unit..
3) Portrusion of MIC Drive Arm Unit is positioned as shown in Figure 6-22-3.
4) Holes between Reel Drive Cam Gear and MIC Geneva Gear are matched.

6-23. T4 Post Phase Adjustment

1. Place unit into unloading condition.
2. Confirm that the hole (B) of T4 connection Gear was matched to hole of T4 post as shown in figure 6-23-1.
3. Confirm that the portion (C) of T4 connection Gear and hole (A) , which are located as shown in figure 6-23-1.
4. If not, adjust the phase of T4 post follow the above procedure.

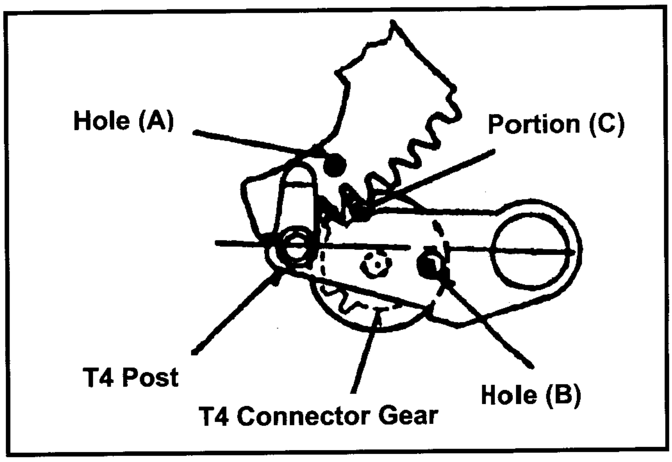

Hole (A)
Portion (C)
T4 Post
T4 Connector Gear
Hole (B)

Fig.6-23-1 Phase of T4 Post

6-21. L-M Release Angle Unit Replacement

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Unscrew the 2 screws (A) and remove the L-M Release Angle Unit as shown in Figure 6-21-1.

(Installation)

1. Install the new L-M Release Angle Unit follow the removal steps reverse order.

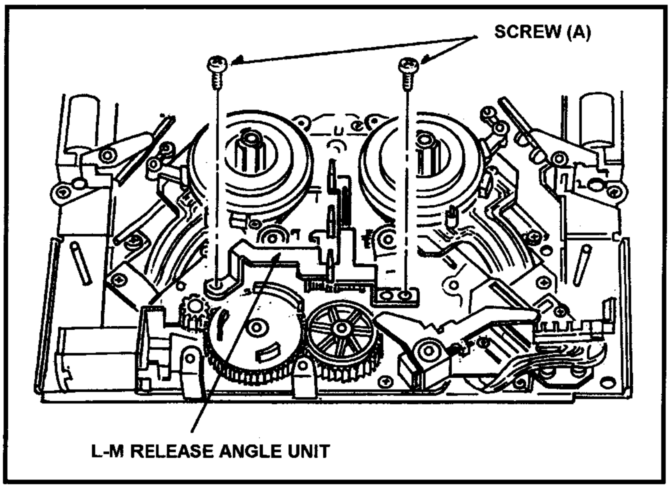

SCREW (A)
L-M RELEASE ANGLE UNIT

Fig.6-21-1 Removal of L-M Release Angle Unit

6-22.Slide Rod Unit Replacement and Adjustment

(Removal)

1. Remove the Top Panel.
2. Remove the Front Loading Unit.
3. Remove the L-M Release Angle Unit. (Refer to item 6-21).
4. Remove the Reel Drive Sensor P.C.Board (Refer to item 6-20).
5. Remove the Cut Washer (A) and remove the Reel Drive Cam Gear.
6. Remove the Cut Washer (B) and remove the MIC Drive Arm Unit.
7. Remove the Cut Washer (C) and remove the MIC Geneva Gear.
8. Remove the Cut Washer (D) and remove the Reel Drive Arm Unit as shown in Figure 6-22-2.
9. Remove the Supply and Take Up Reel Rotor Unit (Refer to item 6-3).
10. Remove the 2 Cut Washers (E) and remove the Supply and Take Up Base Drive Arm Unit.
11. Remove the 2 Cut Washers (F) and remove the Slide Rod Unit.

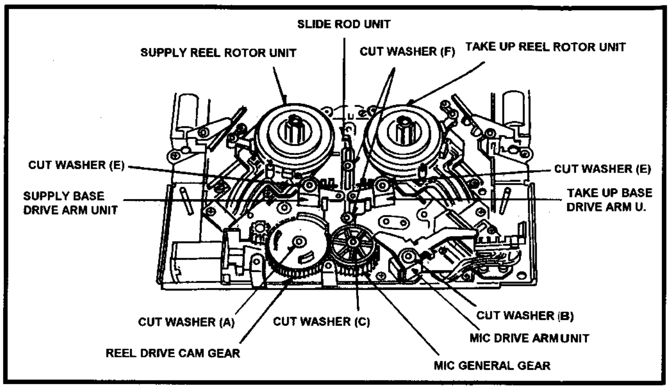

SLIDE ROD UNIT
SUPPLY REEL ROTOR UNIT
CUT WASHER (F)
TAKE UP REEL ROTOR UNIT
CUT WASHER (E)
SUPPLY BASE DRIVE ARM UNIT
CUT WASHER (E)
TAKE UP BASE DRIVE ARM U.
CUT WASHER (A)
CUT WASHER (C)
REEL DRIVE CAM GEAR
CUT WASHER (B)
MIC DRIVE ARM UNIT
MIC GENERAL GEAR

Fig.6-22-1 Removal of Slide Rod Unit

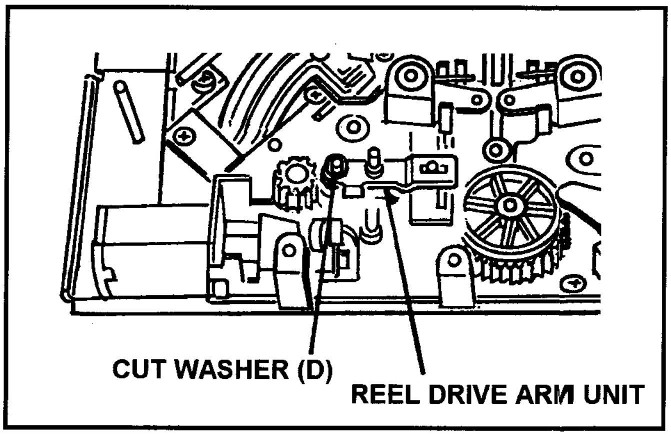

CUT WASHER (D)
REEL DRIVE ARM UNIT

Fig.6-22-2 Removal of Reel Drive Arm Unit

(Installation)

1. Install the new Slide Rod Unit follow the removal steps in reverse order.
2. When install the Reel Drive Cam Gear and MIC Geneva Gear, then phase adjustment should be performed as follows.

(Adjustment)

1. Install the MIC Geneva Gear to the Chassis.
2. Place the Reels in the M-Size position by hand.
3. Install the MIC Drive Arm Unit.
4. Place the REC Inhibit SW in front position on Distinction SW Unit by rotation of MIC Geneva Gear, and then MIC Geneva Gear should be positioned as shown in Figure 6-22-2.

Note: Protrusion of MIC DRIVE Arm Unit is positioned as shown in Figure 6-22-2.

6-24. Thrust Adjustment Screw Replacement and Adjustment

1. Remove the Thrust Adjustment Screw.
2. Enforce cleaning of point department of capstan shaft with an applicator.
3. Put the oil(VFK0906) on a new Thrust Adjustment Screw and install the upper end of the Capstan Housing.
4. Turn the Thrust Adjustment Screw slowly to counter-clockwise until the Capstan Rotor just starts turning (separate from the Capstan Rotor).
5. Turn the Trust Adjustment Screw an another angle of 270° from 180° (about 225°) clockwise as shown in Fig. 6-24-2.
6. Put the glue (Ex:: Three Bond 1401B) on the Thrust Adjust Screw.
7. Confirm whether the Oil Seal does not come in contact with the Capstan Housing.

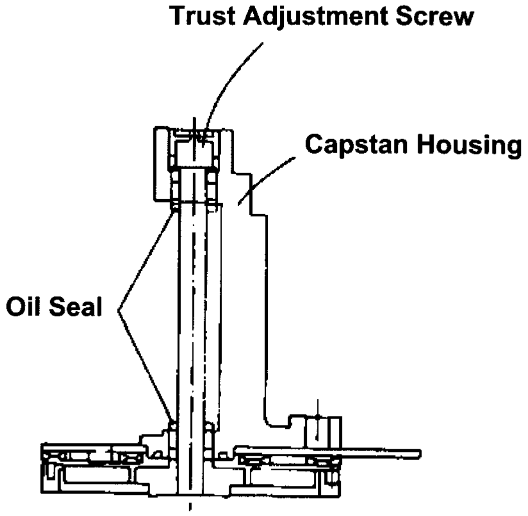

Trust Adjustment Screw
Capstan Housing
Oil Seal

Fig.6-24-1 Removal of Trust Adjustment Screw

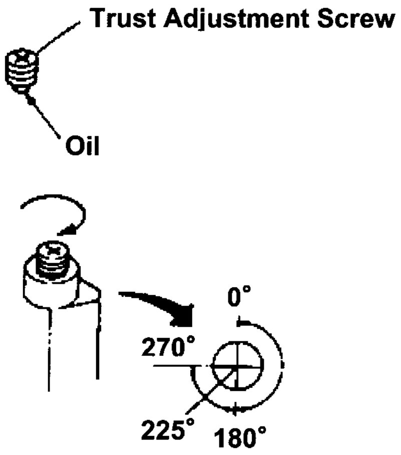

Trust Adjustment Screw
Oil
0°
270°
225°
180°

Fig.6-24-2 Adjustment of Thrust Adjustment Screw

SECTION 4

ELECTRICAL ADJUSTMENT

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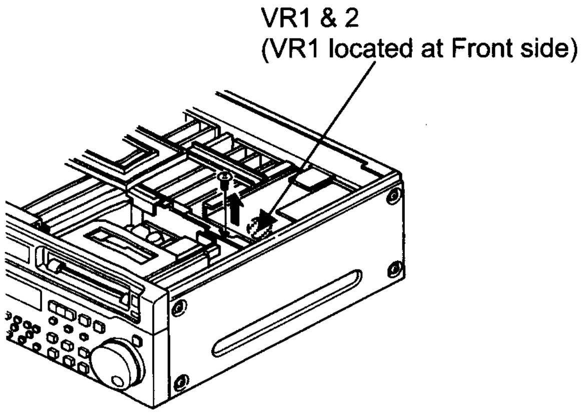
1. POWER

1-1. +5V and +12V Confirmation & Adjustment

BOARD	POWER 2
SPEC.	5V: 5.1V±0.1V 12V: 11.8V±0.6V
TEST	TP6 (+5V), TP12 (+12V) (SYSCON BOARD:F2)
ADJUST	VR1 (+5V), VR2 (+12V)
INPUT	--------------
MODE	EJECT
M.EQ	Digital Volt Meter

1. After connect the test point on SYSCON Board, turn the power ON.
2. Confirm that the voltage at TP6 and 12 in the specification.
3. If it is not, adjust VR1 and VR2 so that the voltage in the specification.



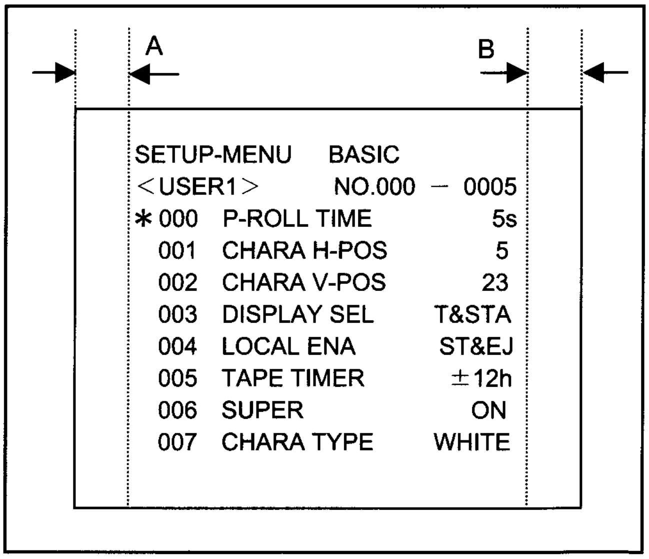
2. SYSTEM CONTROL

2-1. Super Impose Position Adjustment

BOARD	SYSCON (F2)
SPEC.	A = B
TEST	MONITOR
ADJUST	VC1
INPUT	--------------
MODE	EJECT
M.EQ	Monitor TV

1. Press the MENU , and displayed the SETUP-MENU.
2. Adjust VC1 so that the width A and B are equal.
3. Press the MENU button, and finished the SETUP-MENU.

4. **NOTE:** The display of menu may be different the above figure.



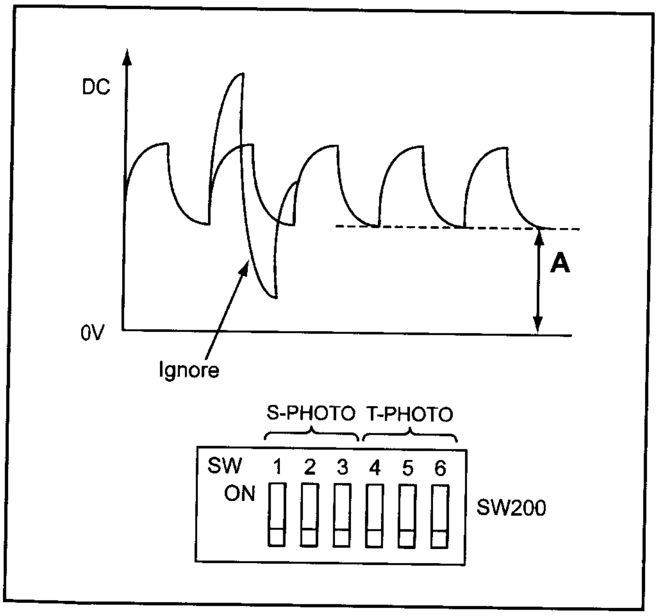
```
SETUP-MENU    BASIC
<USER1>            NO.000 - 0005
*000   P-ROLL TIME        5s
 001   CHARA H-POS         5
 002   CHARA V-POS        23
 003   DISPLAY SEL     T&STA
 004   LOCAL ENA       ST&EJ
 005   TAPE TIMER       ±12h
 006   SUPER              ON
 007   CHARA TYPE      WHITE
```

3. MECH INTERFACE

3-1. Photo Sensor Voltage Adjustment

BOARD	MECH INTERFACE
SPEC.	A = 3.1~4.2VDC
TEST	Pin 25 of Connector P2 (Supply) Pin 26 of Connector P2 (Take Up) (SYSCON BOARD)
ADJUST	DIP SW200 (MECH I/F BOARD)
INPUT	--------------
MODE	EJECT
M.EQ	Oscilloscope VFK1423 (Tape Big./End Det. Cassette)

1. Remove the Bottom Panel.
2. Insert the VFK1423 and measure the voltage at Pin 25 and 26 of connector P2.
3. Set the Dip SW200 so that the DV voltage "A" in the specification.



SW1 SW4	SW2 SW5	SW3 SW6	S-PHOTO T-PHOTO	Synthetic Resistance
ON	ON	ON	A Voltage	420Ω
OFF	ON	ON	UP	460Ω
ON	OFF	ON	↑	660Ω
OFF	OFF	ON		750Ω
ON	ON	OFF		880Ω
OFF	ON	OFF	↓	1050Ω
ON	OFF	OFF	A Voltage	3300Ω
OFF	OFF	OFF	DOWN	8200Ω

4. SERVO

4-1. Motor Torque Offset Adjustment

BOARD	SERVIO (F1)
SPEC.	15±2grcm (5 times average)
TEST	Connect Monitor TV to VIDEO OUT3
ADJUST	A03:T-REEL TRQ A04:S-REEL TEQ (EVR on Service Menu)
INPUT	-------------
MODE	EJECT
TAPE	No Tape
M.EQ	VFK1191 (Dial Torque Gauge) VFK1152 (Dial Torque Gauge Adapter)

1. Set the REEL TABLE to M-cassette position.
2. Remove the Front Loading Unit with the connection cable or remove the Top Plate of Front Loading Unit, which is fixed by 6 screws.
3. Open the SERVO ADJUST menu on the Service menu and select the item " A03:T REEL TRQ ".
4. Set a Dial Torque Gauge to top of Take-up Reel Table.
5. Press the STOP button at 5 times and measure the value of Dial Torque Gauge at 5 times, then calculate the average and adjust EVR "T REEL TRQ" so that the average is in the specification.

Note: While press the STOP button, the REEL Table is rotated

6. Select the item " A04:S REEL TRQ ".
7. Set a Dial Torque Gauge to top of Take-up Reel Table.
8. Press the STOP button at 5 times and measure the value of Dial Torque Gauge at 5 times, then calculate the average and adjust EVR "S REEL TRQ" so that the average is in the specification.

5.EQ and RF Adjustment

EQ and RF adjustment can be executed by RF AUTO EQ software and RF AUTO ADJUSTMENT TOOL.
This Service Manual mention of auto adjust procedure and manual adjustment procedure.

5-1. AUTO ADJUSTMENT PROCEDURE

5-1-1. Preparation and Connection of Auto EQ Adjustment Tool

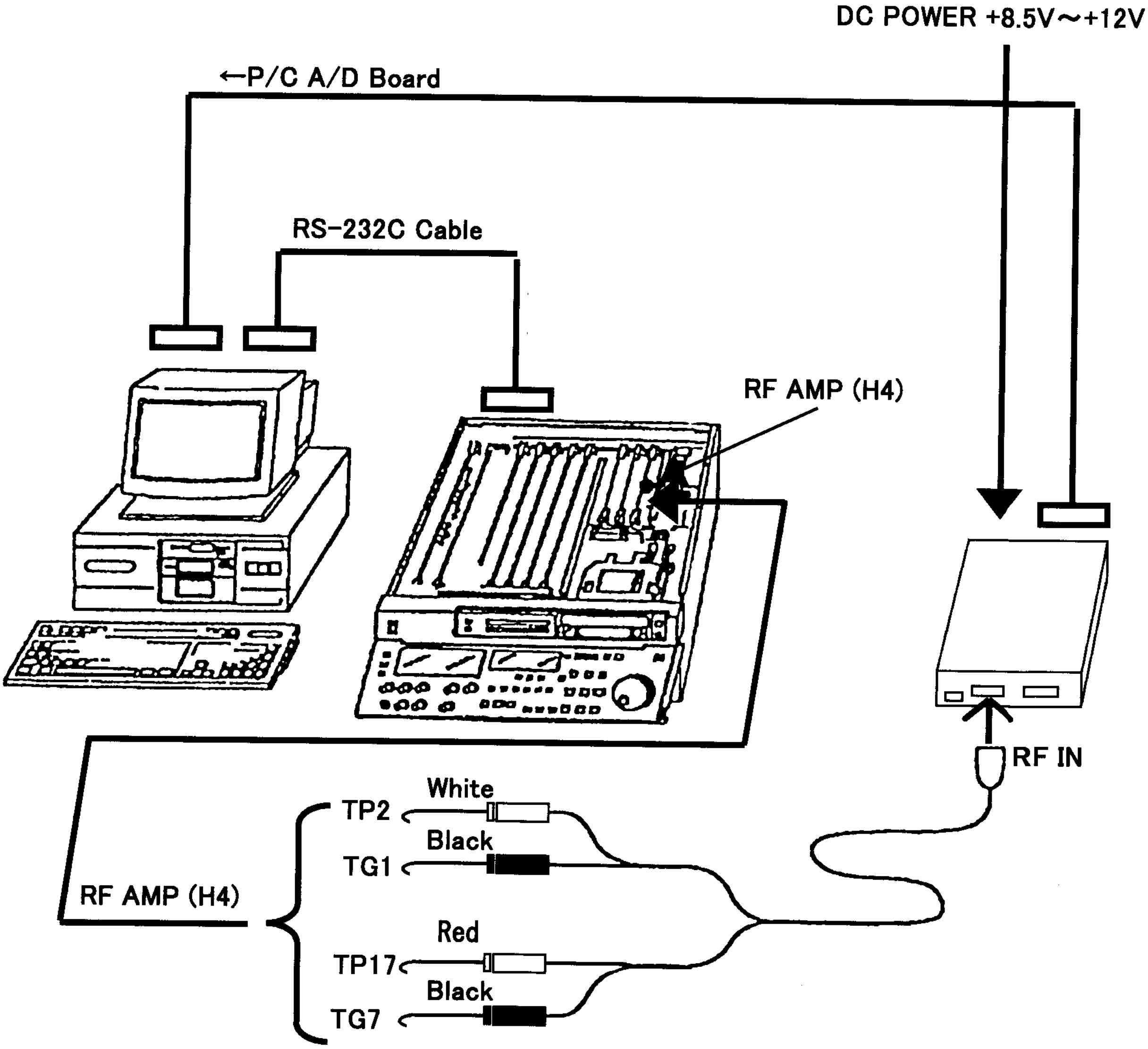
Test Point	TP2:PB HSW, TG1:GND (RF AMP Board:H4) TP17:PB ENV, TG7:GND (RF AMP Board:H4)
Equipment	• RF Auto Adjustment Tool(VFK1163) * This Tool attached 2 kinds of cable • RF Adjustment Software(VFK1160C) • IBM PC Compatible(486/66MHz or greater) • DAQ - 12 A/D Card(Quatech): * This Board is install to PC as same as LISTA ADJ. • DC Power Supply(+8.5V to +12V) • RS - 232C Cable(type of Cross cable)
Tape	**NTSC:**VFM3580KM(DVCPRO), VFM3010EDS(DV) **PAL:**VFM3680KM(DVCPRO), VFM3110EDS(DV) Self - recording and Playback Tape

1. Supply DC Voltage(+8.5 to +12V) to EQ Tool. RF Adjustment Tool requires DC power supply(+8.5V to +12V). Use DC power supply or AC Adaptor movie like " VW - AMC1 ".
2. Connect the extension board with RF AMP (H4) board and connect the clip of cable from EQ tool to Test Point follow as below table on the RF AMP P.C.Board.

WHITE CLIP	TP2	RED CLIP	TP17
BLACK CLIP	TG1	BLACK CLIP	TG7

3. Connect the 62 pin D - Sub connector of cable from EQ tool to A/D Board of PC.
4. Connect the RS232C cable to between VTR and PC.

Connection


DC POWER +8.5V~+12V
←P/C A/D Board
RS-232C Cable
RF AMP (H4)
RF IN
White
TP2
Black
TG1
RF AMP (H4)
Red
TP17
Black
TG7

Initial Setting

< Setting of VTR >

1. Open the Set Up Menu in User mode (do not use Service Mode) and confirm the menu is in <USER1> and set the RS-232C mode as shown below..

204	RS232C SEL	ON
205	BAUD RATE	9600
206	DATA LENGTH	8
207	STOP BIT	1
208	PARITY	NON
209	RETURN ACK	ON

2. Press SET button after setting the above items.
3. Set the LOCAL / REMOTE SW to REMOTE side.

During Automatic EQ adjustment, adjustment is done with ALIGNMENT tape, so rewind the necessary amount of adjustment tape (DVCPRO MASTER and DV MASTER tape) before boot up the EQ automatic adjustment software.

NOTE: When the VTR detected tape end position during adjustment, rewind the tape automatically to tape beginning position and continuation of adjustment.

Boot Up the RF Automatic Adjustment Software.

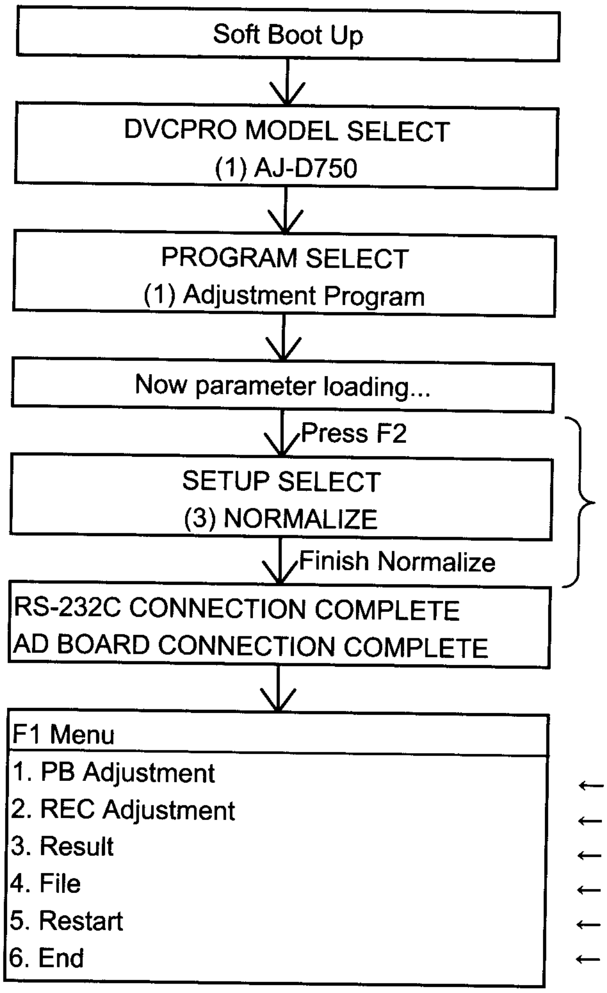
1. Boot Up the EQ Adjustment software after setting and connection.

★ Install and boot up

Copy the all files in the floppy disk of EQ adjustment software to hard disk(for example as directly " RF ADJ " : C:¥RFADJ).

Executive file is DVCRF, so type " DVCRF " and press Enter, then boot up Auto EQ software.

2. Before boot up software, please confirm the tape does not into VTR and LOCAL/REMOTE switch on the front panel set to REMOTE side.
3. After boot up software, appear the message " DVCPRO MODEL SELECT " on the screen, then select the model. In case of the AJ - D440/450, select the item 「(1) AJ - D750」.
4. Next select item 「(1) Adjusting Program」 on the " PROGRAM SELECT " menu.
5. After item 4 the parameter loading menu is appeared and wait about 20 second. This waiting time can be skipped by pressing ENTER key. Then "RS-232C CONNECTION COMPLETE", "AD BOARD CONNECTION COMPLETE" messages and Main Menu are appeared.


Soft Boot Up
DVCPRO MODEL SELECT
(1) AJ-D750
PROGRAM SELECT
(1) Adjustment Program
Now parameter loading...
Press F2
SETUP SELECT
(3) NORMALIZE
Finish Normalize
RS-232C CONNECTION COMPLETE
AD BOARD CONNECTION COMPLETE
F1 Menu
1. PB Adjustment
2. REC Adjustment
3. Result
4. File
5. Restart
6. End

This function is used when the EQ Tool is used first time. Also we recommend to perform it regularly.
(Explanation is on the next page)

← DVCPRO and DV PB ADJ.
← DVCPRO REC ADJ
← Display of EVR and Error rate data
← Save and Load of data
← Re - start of EQ software
← Escape to DOS mode

```
Command>Please Select No.!!!!
```

☆Normalize of RF AUTO ADJUSTMENT TOOL

Press <F2> enter to SET UP, then appeared display as below.

```
                         SETUP SELECT

                         (1) RS-232C
                         (2) AD
                         (3) NORMALIZE
                         (4) PRGKIND
                         (5) END

       INPUT No!! or Select by cursor Key (U/D) and hit RETURN
```

Please select the "(3) NORMALIZE", and press Enter key, then appeared message " Play back the DVCPRO MASTER TAPE, Then PRESS ENTER Key " .

Insert DVCPRO color bar alignment tape and press Enter key, then measurement value appeared as indicated as below.

```
                        Tool BOX Normalizing

                 5MHz BPF    10MHzBPF     20MHzBPF      APF
USER DATA        0.025028     0.032613     0.030525   0.011855
DEFAULT DATA     0.028084     0.031761     0.030125   0.011872

                       Normalizing Again? [Y/N]
```

When you use RF Adjustment Tool first time, please confirm that the value of USER DATA and DEFAULT DATA, which should be difference within +/- 0.01.

When performing this normalization regularly under condition of the same combination of the PC, A/D Board and EQ Tool, the difference of USER DATA and DEFAULT DATA should be with in +/- 0.005.

If USER DATA value is became out of spec, RF Adjustment Tool (VFK1163) have a problem.

In case of the data within spec, please select the "N", the appear the massage below.

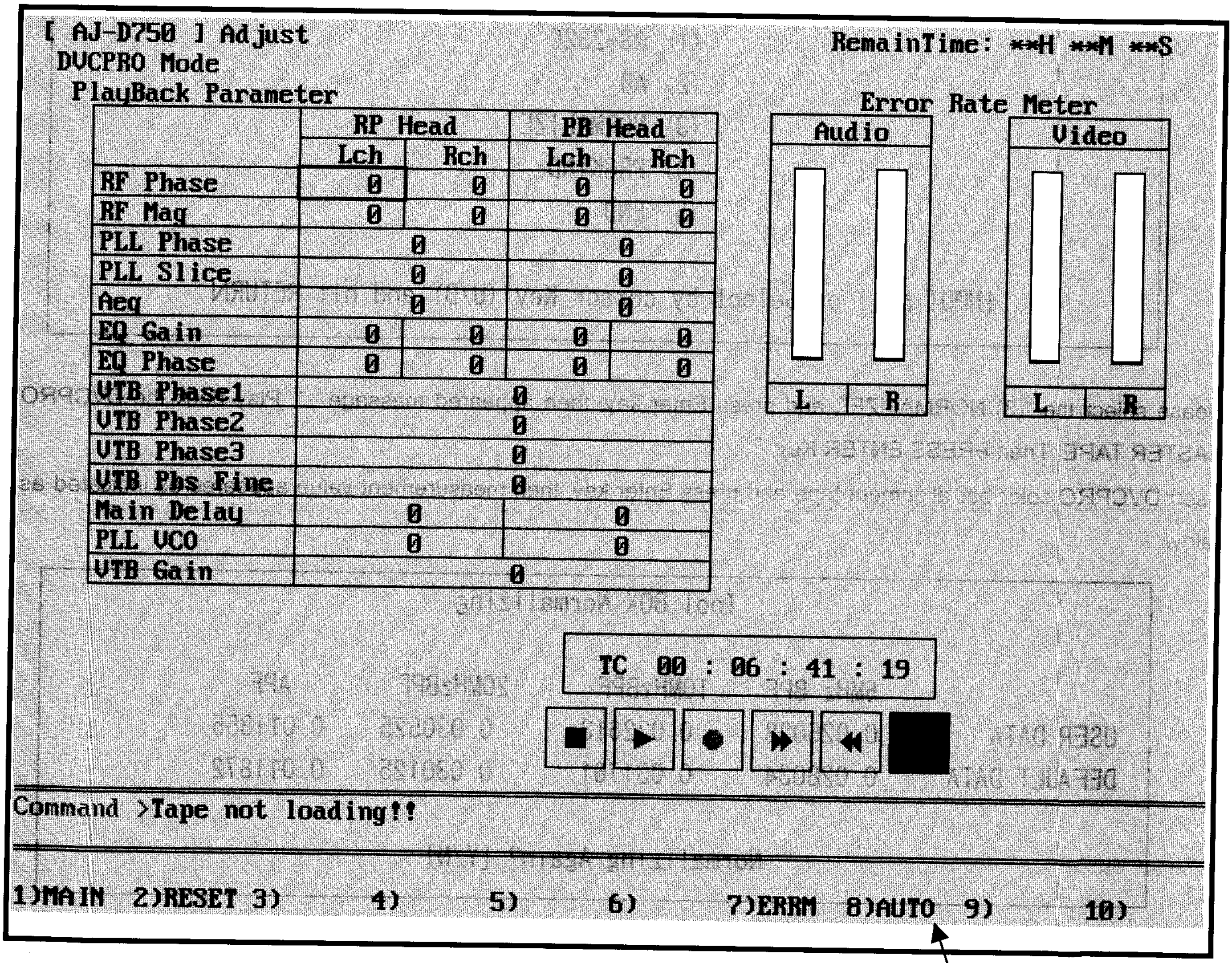
Please Select (U)ser / (D)efault!

Please select "U ", then appeared SETUP SELECT Menu.

Eject the tape and select "(5) END ", then the screen return to parameter loading.

5-1-2. DVCPRO Playback Adjustment

1. Select “1. PB Adjustment” in the Main Menu.
2. Adjustment menu is appeared. “Tape not loading !!” message is appeared, press F8 key (AUTO) for automatic adjustment. The bottom numbers show the Function keys.



[AJ-D750] Adjust
DVCPRO Mode
PlayBack Parameter

RemainTime: **H **M **S

	RP Head		PB Head	
	Lch	Rch	Lch	Rch
RF Phase	0	0	0	0
RF Mag	0	0	0	0
PLL Phase	0		0	
PLL Slice	0		0	
Aeq	0		0	
EQ Gain	0	0	0	0
EQ Phase	0	0	0	0
VTB Phase1	0			
VTB Phase2	0			
VTB Phase3	0			
VTB Phs Fine	0			
Main Delay	0		0	
PLL VCO	0		0	
VTB Gain	0			

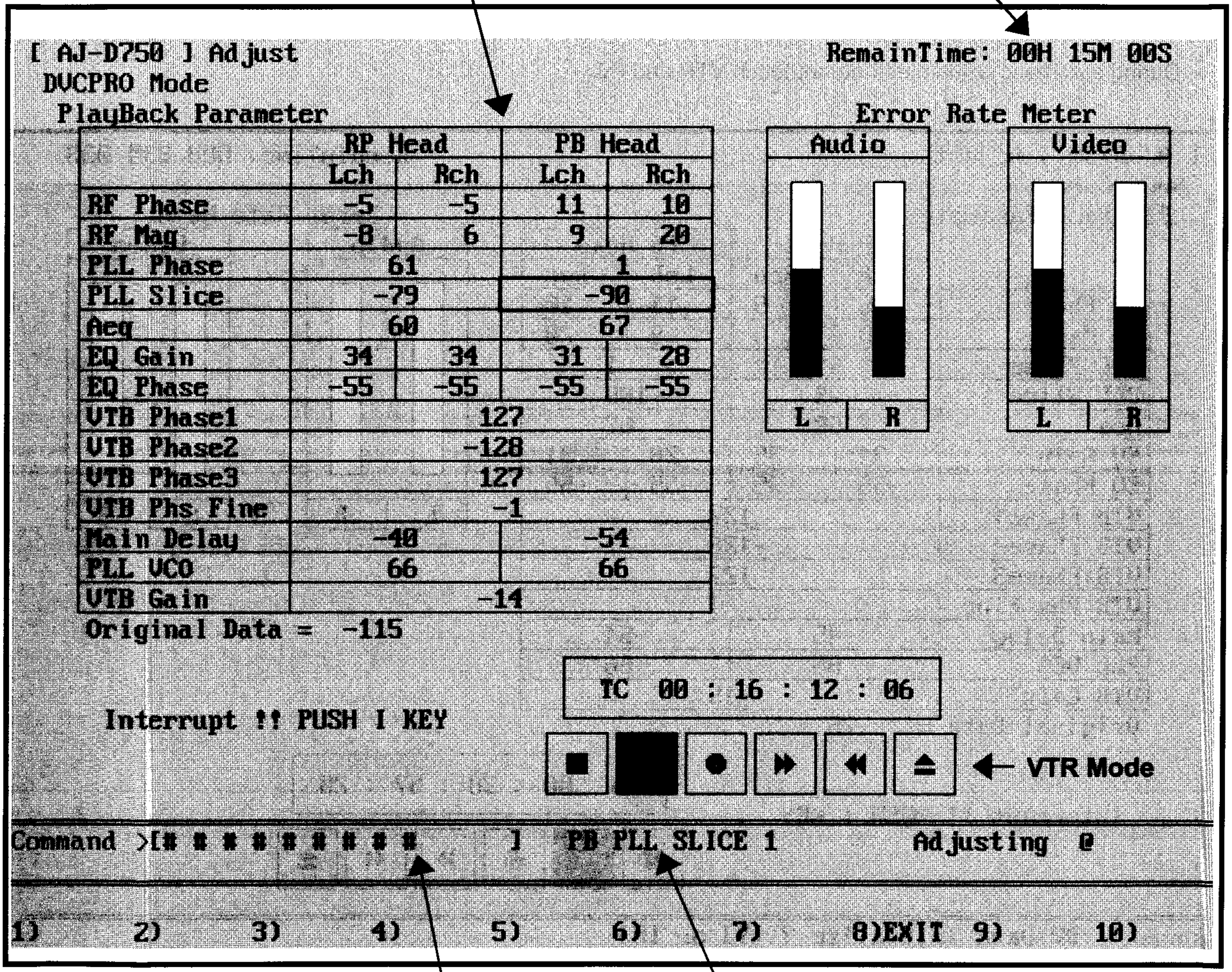
TC 00 : 06 : 41 : 19

Command >Tape not loading!!

F8 KEY (AUTO ADJ)

3. In the SELECT MENU, select “1. ALL Adjustment”.
4. Then the message of “PLEASE INSERT DVCPRO MASTER TAPE” is appeared in the former adjustment menu, insert DVCPRO MASTER (VFM3580KM : NTSC) or (VFM3680KM : PAL).

5. The following picture is appeared and automatic adjustment is started. During automatic adjustment, do not touch VTR and PC.
6. Adjustment is completed in 7 or 8 minutes. Then DV Playback adjustment is started. At bottom of the screen, “Please insert DV master Tape” is displayed.



Tape remaining time

Adjustment Items with Data

[AJ-D750] Adjust RemainTime: 00H 15M 00S

DVCPRO Mode

PlayBack Parameter

	RP Head		PB Head	
	Lch	Rch	Lch	Rch
RF Phase	-5	-5	11	10
RF Mag	-8	6	9	20
PLL Phase	61		1	
PLL Slice	-79		-90	
Aeq	60		67	
EQ Gain	34	34	31	28
EQ Phase	-55	-55	-55	-55
VTB Phase1	127			
VTB Phase2	-128			
VTB Phase3	127			
VTB Phs Fine	-1			
Main Delay	-40		-54	
PLL VCO	66		66	
VTB Gain	-14			

Original Data = -115

Error Rate Meter

Interrupt !! PUSH I KEY

TC 00 : 16 : 12 : 06

VTR Mode

Command >[# # # # # # # # # #] PB PLL SLICE 1 Adjusting @

Remaining time for adjustment

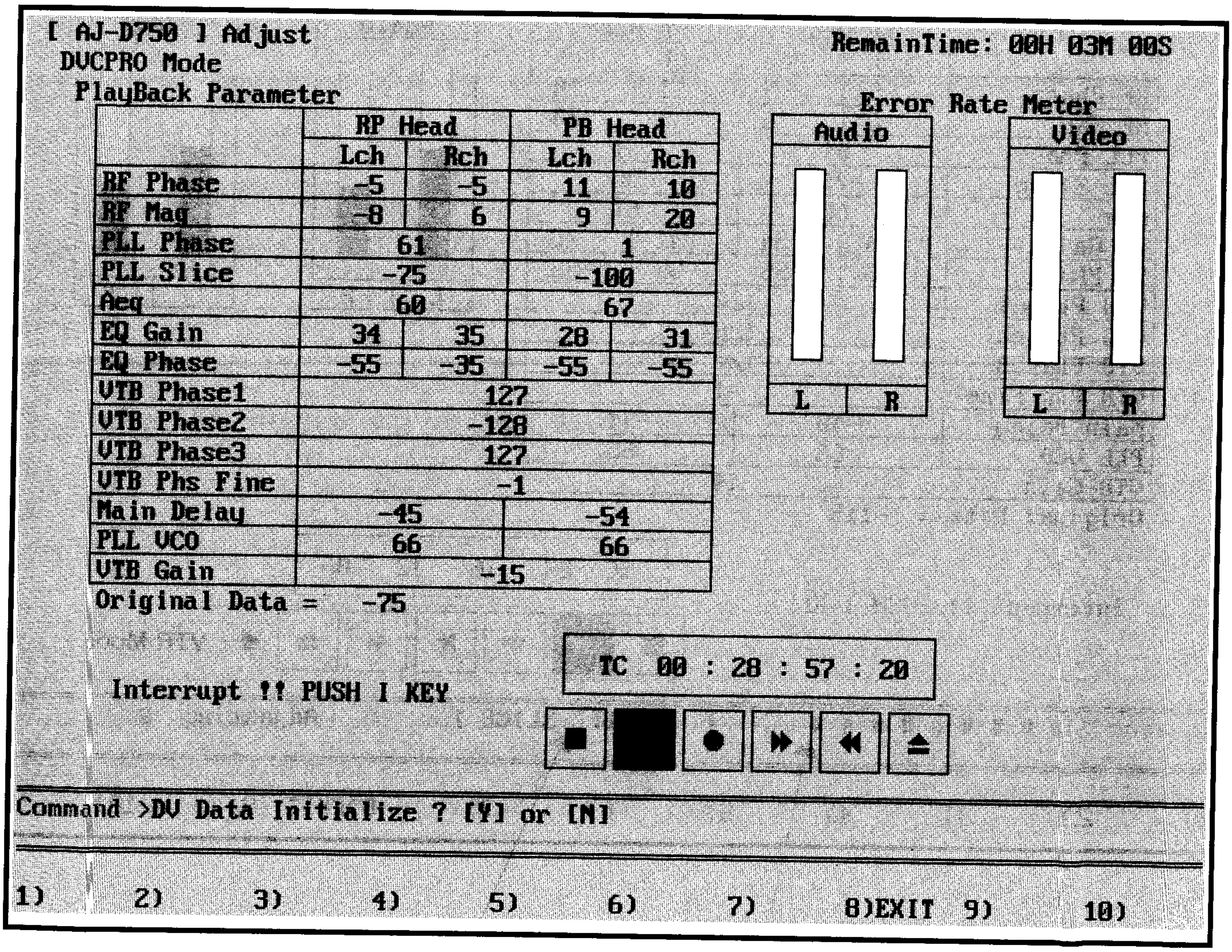
Adjustment items at present

5-1-3. DV (Consumer) Playback Adjustment

This adjustment is done following DVCPRO Playback adjustment.

1. Tape is automatically ejected after DVCPRO Playback Adjustment. Insert DV MASTER Tape when "Please Insert DV MASTER" message is appeared.
2. When "DV Data Initialize?" [(Y)es or (N)o]" message is appeared, select N.
3. DV Playback automatic adjustment is started.

   During automatic adjustment, do not touch VTR and PC.



[AJ-D750] Adjust
DVCPRO Mode
PlayBack Parameter

RemainTime: 00H 03M 00S

	RP Head		PB Head	
	Lch	Rch	Lch	Rch
RF Phase	-5	-5	11	10
RF Mag	-8	6	9	20
PLL Phase	61		1	
PLL Slice	-75		-100	
Aeq	60		67	
EQ Gain	34	35	28	31
EQ Phase	-55	-35	-55	-55
VTB Phase1	127			
VTB Phase2	-128			
VTB Phase3	127			
VTB Phs Fine	-1			
Main Delay	-45		-54	
PLL VCO	66		66	
VTB Gain	-15			

Original Data = -75

Interrupt !! PUSH I KEY

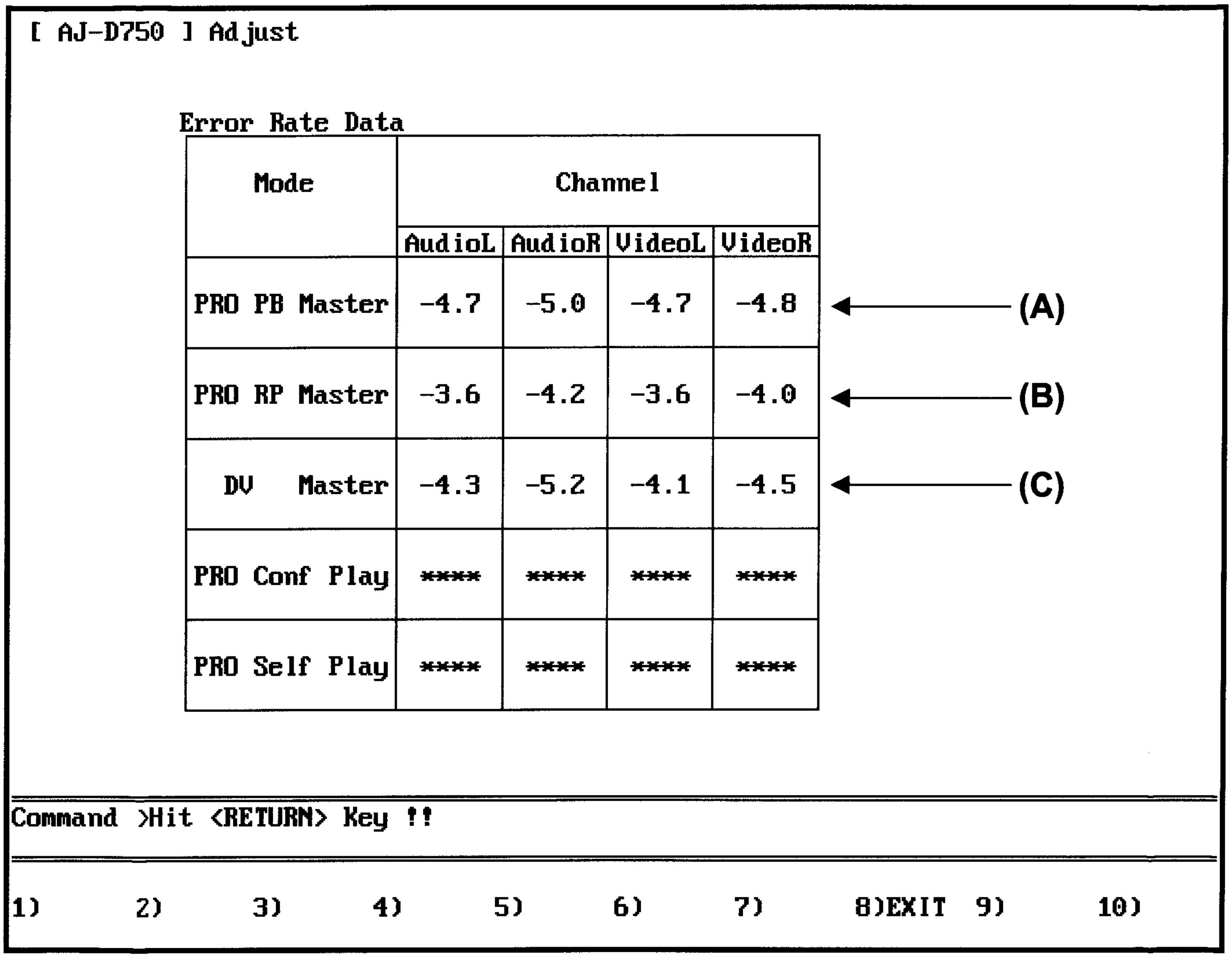
TC 00 : 28 : 57 : 20

Command >DV Data Initialize ? [Y] or [N]

1) 2) 3) 4) 5) 6) 7) 8)EXIT 9) 10)

5-1-4. Confirmation of Error Rate (PLAYBACK)

1. After DVCPRO and DV Playback adjustment, measured error rate is automatically displayed as shown below.



```
[ AJ-D750 ] Adjust
```

Error Rate Data

Mode	Channel			
	AudioL	AudioR	VideoL	VideoR
PRO PB Master	-4.7	-5.0	-4.7	-4.8
PRO RP Master	-3.6	-4.2	-3.6	-4.0
DV Master	-4.3	-5.2	-4.1	-4.5
PRO Conf Play	****	****	****	****
PRO Self Play	****	****	****	****

```
Command >Hit <RETURN> Key !!

1)     2)     3)     4)     5)     6)     7)     8)EXIT  9)     10)
```

2. Confirm the numbers at (A), (B) and (C) they are displayed in Green.
   If the color is red the error rate is too high.
   Especially the numbers at (A) and (C) must be Green. If part of row of (B) is red, clean the head and the tape transportation and re-adjust the DVCPRO RP Playback adjustment.

<Procedures>

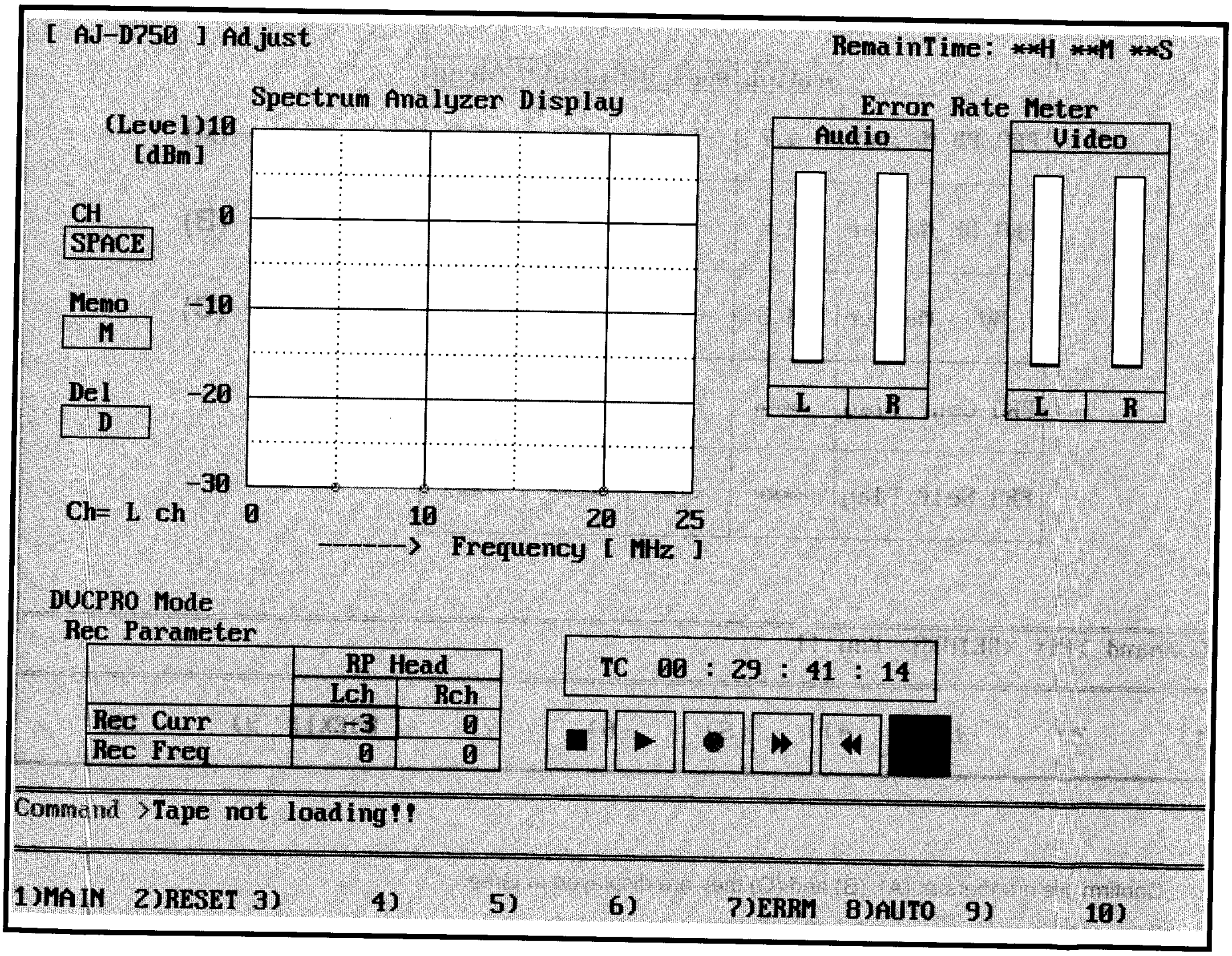
1. If Return key is pressed, Select Menu is displayed and select “3. DVCPRO RP ONLY Adjustment”. Then follow the message on PC and re-adjust RP mode only.
2. After adjustment error rate is automatically displayed.

Confirm the error rate and if they are correct, do the next adjustment.

5-1-5. DVCPRO Recording Adjustment

Start the DVCPRO Recording Adjustment after Playback Adjustment and Error Rate Confirmation.

1. Return to Main Menu. Press Enter key on the Error Rate Display Menu and open the Sub menu.
2. Select "6. Return to manual" and press F1 key (MAIN) and return to Main Menu.
3. Select "2. REC Adjustment" and following "REC Adjustment " menu is appeared.


[AJ-D750] Adjust
RemainTime: **H **M **S
Spectrum Analyzer Display
(Level)10
[dBm]
CH
SPACE
0
Memo
M
-10
Del
D
-20
-30
Ch= L ch
0
10
20
25
-------> Frequency [MHz]
Error Rate Meter
Audio
Video
L
R
L
R
1)MAIN 2)RESET 3) 4) 5) 6) 7)ERRM 8)AUTO 9) 10)

DVCPRO Mode

Rec Parameter

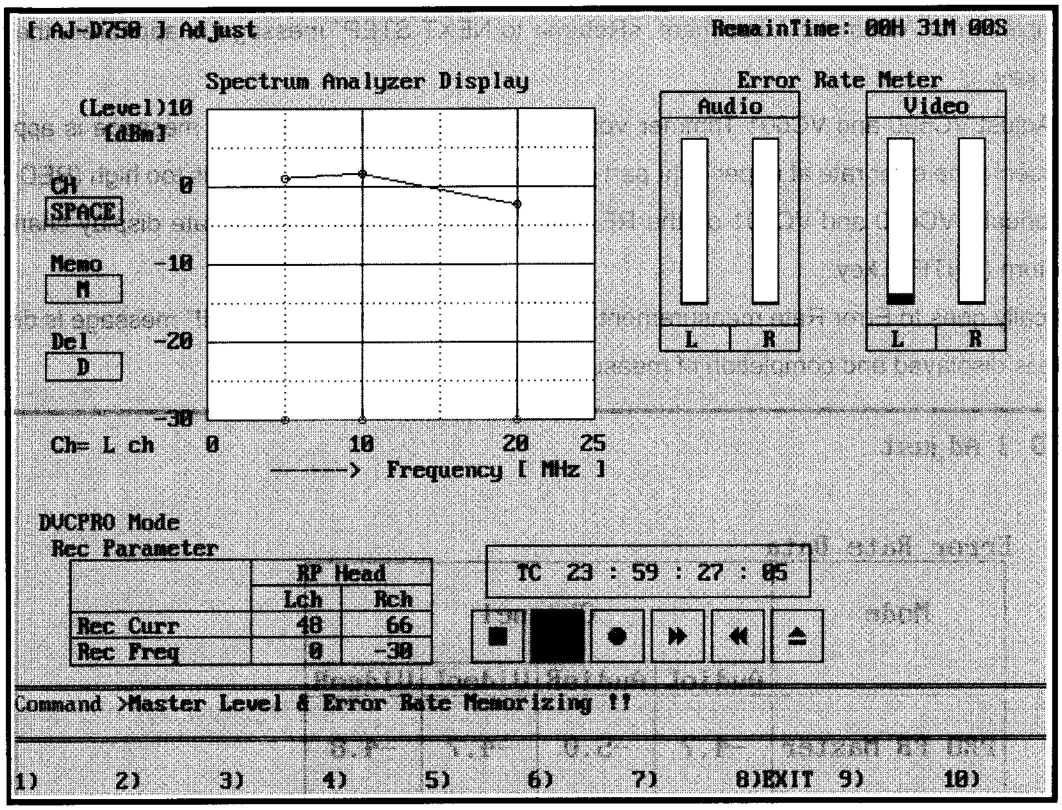
	RP Head	
	Lch	Rch
Rec Curr	-3	0
Rec Freq	0	0

TC 00 : 29 : 41 : 14

Command >Tape not loading!!

4. Tape not loading message is appeared. For the automatic adjustment press F8 key (AUTO).
5. Select "1. Adjust start" in the Sub Menu.
6. The messaged of "Please Insert DVCPRO MASTER TAPE (COLOR BAR)" is appeared, and insert the DVCPRO color bar master tape. After inserting the master tape, Master level and error rate level are automatically memorized.

7. During data memorizing, following menu is appeared and waveform is appeared in the Spectrum Analyzer Display part.



[AJ-D750] Adjust   RemainTime: 00H 31M 00S

Ch= L ch

DVCPRO Mode

Rec Parameter

	RP Head	
	Lch	Rch
Rec Curr	40	66
Rec Freq	0	-30

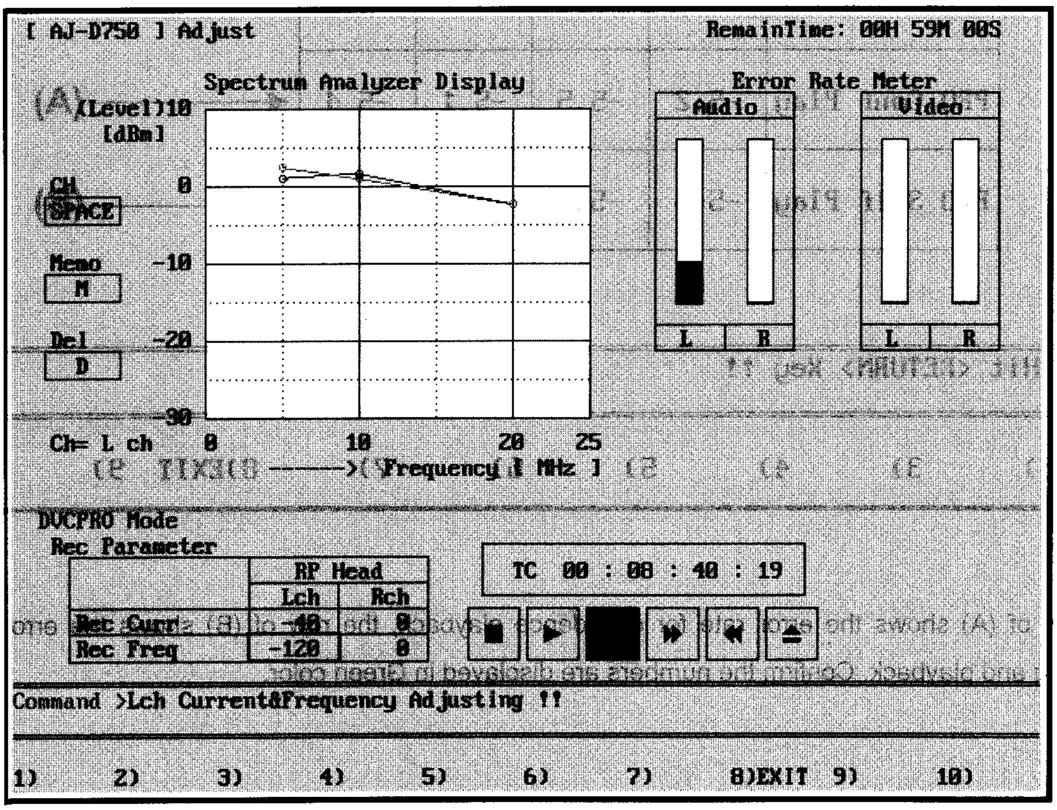
TC 23 : 59 : 27 : 05

Command >Master Level & Error Rate Memorizing !!

Spectrum Analyzer Display
(Level)10
[dBm]
0
-10
-20
-30
0
10
20
25
———> Frequency [MHz]
CH
SPACE
Memo
M
Del
D
Error Rate Meter
Audio
Video
L
R
L
R
1)
2)
3)
4)
5)
6)
7)
8)EXIT
9)
10)

8. Tape is ejected after completion of Master Tape Data Memorizing, and “Please Insert Blank Tape” message is appeared. Then insert self recording and playback tape.

9. Start the Automatic Adjustment.



[AJ-D750] Adjust   RemainTime: 00H 59M 00S

Ch= L ch

DVCPRO Mode

Rec Parameter

	RP Head	
	Lch	Rch
Rec Curr	-40	0
Rec Freq	-120	0

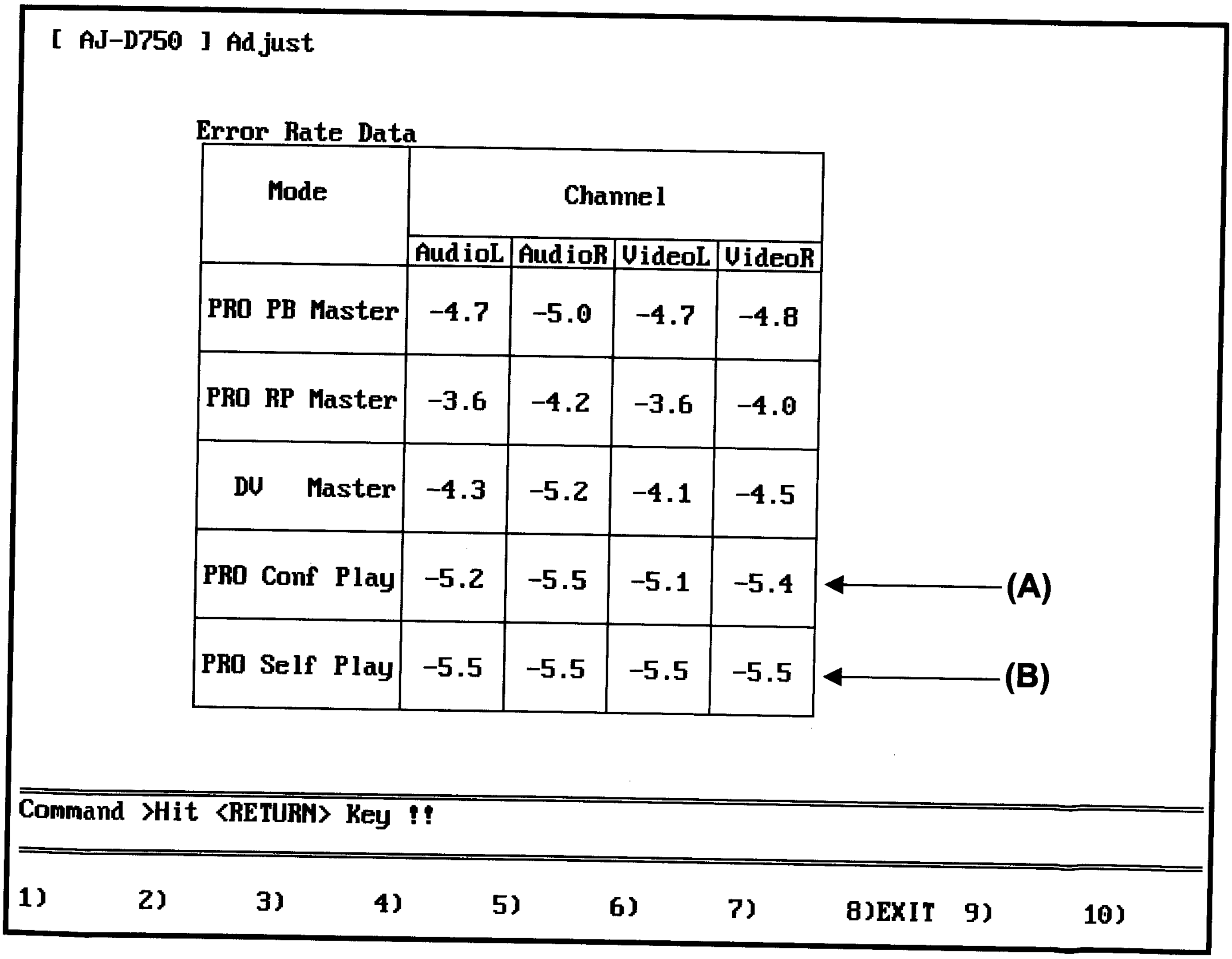
TC 00 : 00 : 40 : 19

Command >Lch Current&Frequency Adjusting !!

Spectrum Analyzer Display
(Level)10
[dBm]
0
-10
-20
-30
0
10
20
25
———> Frequency [MHz]
CH
SPACE
Memo
M
Del
D
Error Rate Meter
Audio
Video
L
R
L
R
1)
2)
3)
4)
5)
6)
7)
8)EXIT
9)
10)

5-1-6.Confirmation of Error Rate (REC)

1. After completion of Automatic Adjustment '<Return> to NEXT STEP" message is appeared, the press Return (ENTER) key.
2. "Please Adjust VC600 and VC601 Trimmer Volume and Minimize Error Rate !!" message is appeared. At this menu, observe the error rate at upper right part of the screen and if the error rate is too high (RED color display), adjust manually VC600 and VC601 on the RF AMP (H4) BOARD. If the error rate display changed to green, press Return (ENTER) key.
3. Automatically goes to Error Rate measurement mode and "Error Rate Checking !!" message is displayed.
4. Error rate is displayed and completion of measurement.



[AJ-D750] Adjust

Error Rate Data

Mode	Channel			
	AudioL	AudioR	VideoL	VideoR
PRO PB Master	-4.7	-5.0	-4.7	-4.8
PRO RP Master	-3.6	-4.2	-3.6	-4.0
DV Master	-4.3	-5.2	-4.1	-4.5
PRO Conf Play	-5.2	-5.5	-5.1	-5.4
PRO Self Play	-5.5	-5.5	-5.5	-5.5

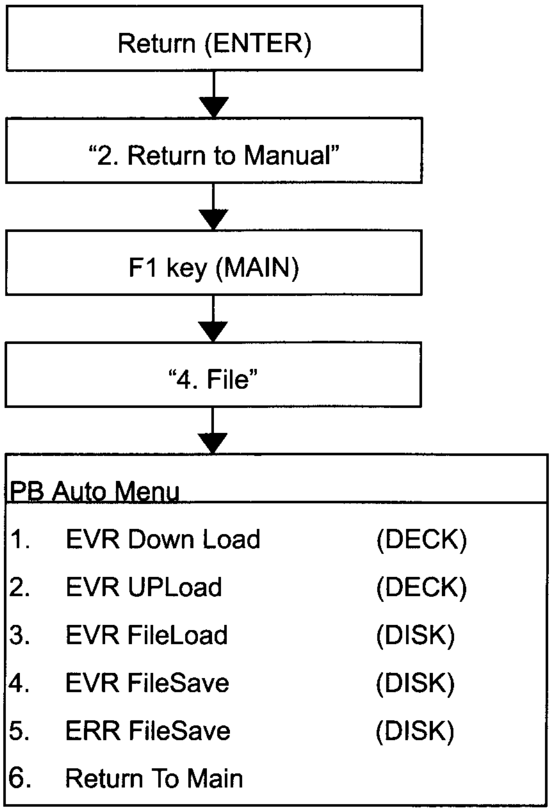
```
Command >Hit <RETURN> Key !!

1)      2)      3)      4)      5)      6)      7)      8)EXIT  9)      10)
```

5. The row of (A) shows the error rate for confidence playback, the row of (B) shows the error rate for self recording and playback. Confirm the numbers are displayed in Green color.

Save RF Data and Error Rate Data

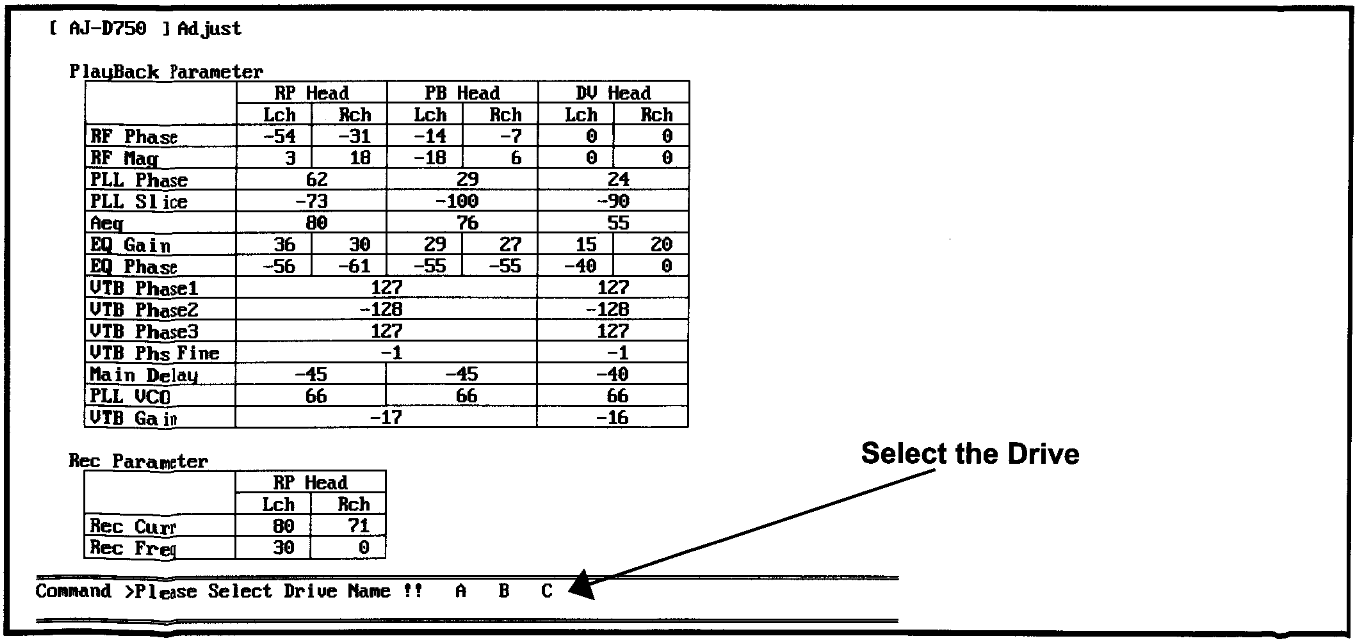
RF Adjustment result data and error rate data can be saved.

1. Return to MAIN Menu from Recording Adjustment menu.
2. The procedures are show below.


Return (ENTER)
"2. Return to Manual"
F1 key (MAIN)
"4. File"
PB Auto Menu
1. EVR Down Load (DECK)
2. EVR UPLoad (DECK)
3. EVR FileLoad (DISK)
4. EVR FileSave (DISK)
5. ERR FileSave (DISK)
6. Return To Main

Command>Please Select No!!!!

3. item 3 is EVR data loading, item 4 is EVR data saving and item 5 is Error rate data saving.



[AJ-D750] Adjust

PlayBack Parameter

	RP Head		PB Head		DV Head	
	Lch	Rch	Lch	Rch	Lch	Rch
RF Phase	-54	-31	-14	-7	0	0
RF Mag	3	18	-18	6	0	0
PLL Phase	62		29		24	
PLL Slice	-73		-100		-90	
Aeq	80		76		55	
EQ Gain	36	30	29	27	15	20
EQ Phase	-56	-61	-55	-55	-40	0
VTB Phase1	127				127	
VTB Phase2	-128				-128	
VTB Phase3	127				127	
VTB Phs Fine	-1				-1	
Main Delay	-45		-45		-40	
PLL VCO	66		66		66	
VTB Gain	-17				-16	

Rec Parameter

	RP Head	
	Lch	Rch
Rec Curr	80	71
Rec Freq	30	0

Command >Please Select Drive Name !! A B C

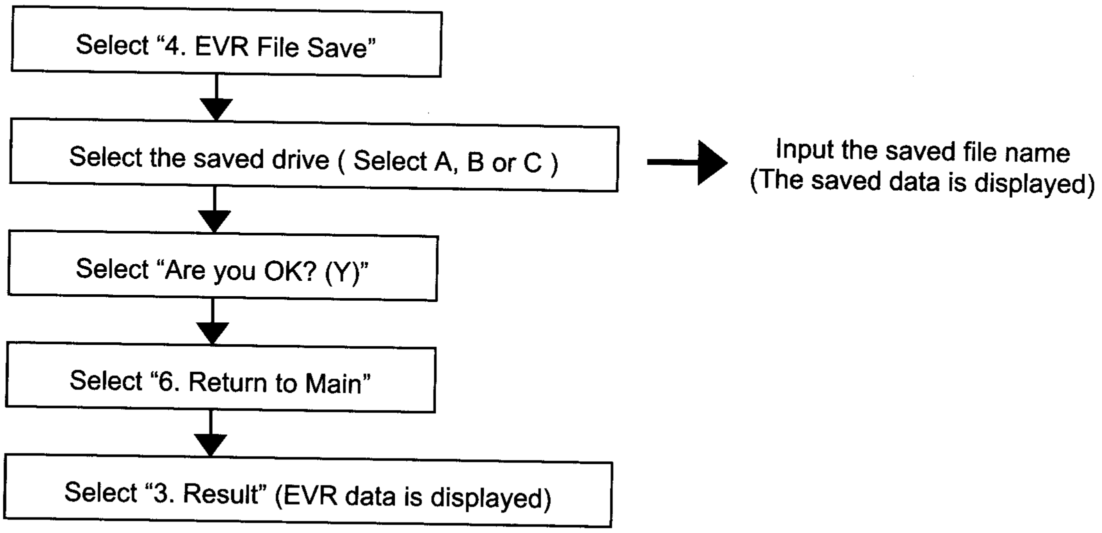
Select the Drive

<< **EVR File Save** >>

1. Select "4. EVR File Save". All parameters are displayed and select the drive for data saving.
2. Enter the file name and comment after selecting the drive. File name must be in 8 characters, and comment is must be in 20 characters. The adjustment data for VTR can be managed same as linearity data. After enter the File name and comment, Sub-menu is automatically displayed. Then save the EVR data.

<< EVR File Load >>

1. Select "3. EVR File Load (DISK) for reading the EVR data from PC.
2. Select the drive follow the screen message input the saved filename, then EVR data displayed on the screen.
3. When escape from this EVR data display, press " Y " key follow the message " Are You OK " , then return to Sub-menu (File selected menu)


Select "4. EVR File Save"
Select the saved drive (Select A, B or C)
Input the saved file name
(The saved data is displayed)
Select "Are you OK? (Y)"
Select "6. Return to Main"
Select "3. Result" (EVR data is displayed)

<< **Save the Error Data** >>

1. Displayed PB Auto Menu as the same as step of introduction << Save and Reading the EVR Data >>.
2. Select " 5. ERR File Save " on the PB Auto menu.
3. The Error rate data is saved to same directly as AUTO EQ software, which is file " ERRDATA.DAT " Therefore it file can only entry the comment.
4. After input comment, Auto EQ software is executed saving operation and return to PB Auto menu.

<< Load the Error Data >>

1. The saved Error data file read on the Editor after return to Dos mode.
2. The contents of Error data file, which display from left side on the screen " date of saving(month/day/year),comment and error data." .
3. Order to display of Error data from left side, which display as numerical value of upper left(PRO PB MASTER – Audio L) on the error rate table of Auto EQ software display and next to right numerical value displayed. And next row of numerical value(PRO RP MASTER – Audio L) displayed from left to right direction. Therefore most of right side of numerical value on Editor display, which is numerical value of "PRO Self Play – Video R" .

<< EVR Up Load >>

When EVR file data load to VTR from PC. First EVR file load have to executed follow the procedure on previous page.

1. Select the item "2 EVR UP Load" and press "U" Key follow the message " (D)efault or (U)ser Data Up Load " .
2. After press "U" button appear the message "Up Load Complete !! Are You OK? [(Y)es or (N)o], then press (Y) button for up load EVR data to VTR.

<< EVR Down Load >>

Note: The EVR data keep on EQ software until escape DOS mode after Auto EQ adjustment finished. Therefore if you want to save EVR data without execute Auto EQ adjustment, necessary EVR Down Load operation.

1. Select the item " 2.EVR Down Load " and press "U" Key follow the message " (D)efault or (U)ser Down Load " .
2. After press "U" button appear the message "Down Load Complete !! Are You OK? [(Y)es or (N)o], then press (Y) button for EVR data down load to PC from VTR.

After finish EVR Down Load, perform " EVR File Save " for file save to disk drive follow the follow the procedure on previous page.

5-2. MANUAL ADJUSTMENT PROCEDURE

RF ADJUSTMENT

5-2-1. Pre EQ Adjustment

BOARD	RF AMP board (H4)
SPEC.	2.5VDC±0.2V(DVCPRO) 2.0+0.5V(DV)
TEST	TP20, TP18,TP1 and TP2 (Trigger)
ADJUST	C09:RP MAG L, C10:RP MAG R, C13:PB MAG L, C14:PB MAG R (EVR on RF ADJUST menu)
MODE	PLAY
TAPE	DV Alignment tape (NTSC: VFM3010EDS, PAL: VFM3110EDS) DVCPRO Alignment tape (NTSC: VFM3580KM, PAL: VFM3680KM)
M.EQ	Oscilloscope Monitor TV (Connect to VIDEO 3 OUT)

1. Open the RF ADJUST menu on the Service Menu.
2. Connect the Scope to TP1 for trigger.
3. Connect the Scope to TP20 and connect the ground to TG9.
4. Playback a color bar portion of the DV Alignment Tape.
5. Adjust EVR ”C09:RP MAG L” and “C10:RP MAG R” so that the DC voltage is become 2.0V+0.5V.
6. Playback a color bar portion of DVCPRO Alignment Tape.
7. Adjust EVR ”C09:RP MAG L” and “C10:RP MAG R” so that the DC voltage is become 2.5V+0.5V.
8. Connect the scope to TP18 and connect the ground to TG9.
9. Connect the scope to TP2 for trigger.
10. Adjust EVR ”C13:PB MAG L” and EVR “C14:PB MAG R” so that the DC voltage is become 2.0V+0.5V.

Note: How to adjust the EVR.

(1) Press the MENU button on the front bottom panel, then “ SET UP Menu “ appeared on the screen.

(2) Keep holding press EJECT and STOP button, press the MENU button on the front bottom panel, then “ Service Menu “ appeared on the screen.

(3) Select the item “ C00: RF ADJUST “ by ▲ or ▼ button and press the SET button on the front bottom panel, then open “ RF ADJUST “ menu.

(4) Select the adjustment item by Cursor button, then move the start mark “✳” to the adjusting item.

(5) Adjust EVR by press ◀ or▶ button, then adjustment value is changeable.

5-2-2. RF AMP PB Phase Adjustment

BOARD	RF AMP board (H4)
SPEC.	Minimum of Error Rate
TEST	Front Display
ADJUST	C07:RP PHASE L, C08:RP PHASE R C11:PB PHASE L, C12:PB PHASE R (EVR on RF ADJUST menu)
MODE	PLAY
TAPE	DV Alignment tape (NTSC: VFM3010EDS, PAL: VFM3110EDS) DVCPRO Alignment tape (NTSC: VFM3580KM, PAL: VFM3680KM)
M.EQ	Monitor TV (Connect to VIDEO 3 OUT)

1. Open the RF Adjust menu on the Service menu and set as follows.

C20	ERROR MODE	FAST
C19	PB MODE	RP H
C18	VITERBI MODE	ON
C17	CONCEAL MODE	OFF
C16	ECC MODE	AL OFF

2. Confirm that the Audio level meter is became video error display mode.
3. Playback the DV color bar portion of Alignment Tape.
4. Adjust EVR “C07: RP PHASE L” and “C08:RP PHASE R” so that the error rate is minimum.
5. Playback the color bar portion of DVCPRO Alignment tape.
6. Adjust EVR “C07:RP PHASE L’ and “C08:RP PHASE R” so that the error rate is minimum.
7. Set the item “C19:PB MODE” to PB H.
8. Adjust “C11:PB PHASE L” and “C12:PB PHASE R” so that the error rate is minimum.

5-3. EQ ADJUSTMENT

5-3-1. PLL Lock Adjustment (PB)

BOARD	EQ Board (H3)
SPEC.	------------
TEST	TP403, Monitor
ADJUST	VR410, B01:PB PLL PHASE, B02:PB PLL SLICE (EVR on EQ ADJUST menu)
INPUT	------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV Oscilloscope

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service Menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape and confirm the picture is appeared on the monitor.
4. If picture is not appeared, adjust following items
   (1) Connect the scope to TP403 and adjust VR410 so that the DC voltage is become 2.1VDC.
   (2) Adjust "B01:PB PLL PHASE" and "B02:PB PLL SLICE" so that the picture appears on the monitor.
5. Repeat STOP to PLAY mode, and confirm the Picture is surely appeared every time.

5-3-2. PLL Latch Phase Coarse Adjustment (PB)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B01:PB PLL PHASE (EVR on EQ ADJUST menu)
INPUT	------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B01:PB PLL PHASE" so that the video error rate becomes minimum.

5-3-3. PLL Slice Level Coarse Adjustment (PB)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B02:PB PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B02:PB PLL SLICE" so that the video error rate becomes minimum.

5-3-4. EQ Adjustment (1) (PB)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B19:PB MAIN DL (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B19:PB MAIN DL" so that the video error rate is minimum.

5-3-5. EQ Adjustment (2) (PB)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B03:PB AEQ, B04:PB GAIN L, B05:PB PHASE L, B06:PB GAIN R, B07:PB PHASE R (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust each adjustment item so that the each portions error rate becomes minimum as shown in the table.

Procedures	Adjust VR	Error Rate Portion
1	PB AEQ	VIDEO R & L CH
2	PB GAIN L	VIDEO L CH
3	PB PHASE L	VIDEO L CH
4	PB GAIN R	VIDEO R CH
5	PB PHASE R	VIDEO R CH

5-3-6. PLL Latch Phase Fine Adjustment (PB)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B01:PB PLL PHASE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B01:PB PLL PHASE" so that the video error rate becomes minimum.

5-3-7. PLL Slice Level Fine Adjustment (PB)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B02:PB PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B02:PB PLL SLICE" so that the video error rate becomes minimum.

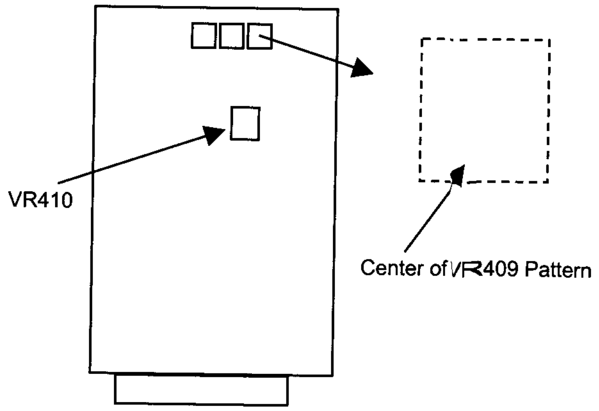
5-3-8. Viterbi A/D Input Level Adjustment

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Center of VR409 pattern Error Rate Level Meter (Front display)
ADJUST	B23:VITABI GAIN, VR801, (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	ON
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B23:VTB GAIN" so that the video error rate becomes minimum.
5. Connect the Electric Volt Meter to " Center of VR409 Pattern " as shown as below figure and confirm the DC voltage is 2.1V DC to 2.4VDC. If it is not, adjust VR801.



EQ (H3) Board. Parts side

5-3-9. PLL Lock Adjustment (R/P)

BOARD	EQ Board (H3)
SPEC.	-------------
TEST	TP203, Monitor TV
ADJUST	VR210, B08:RP PLL PHASE, B09:RP PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape and confirm the picture appears on the monitor.
4. If the picture is not appeared adjust following items.
   (1) Connect the Electric Volt Meter to TP203 and adjust VR210 so that the DC voltage is 2.1VDC.
   (2) Adjust “B08:RP PLL PHASE” and “B09:RP PLL SLICE so that the picture appears on the monitor.
5. Repeat STOP to PLAY and confirm the picture is surely appeared.

5-3-10. PLL Latch Phase Adjustment (R/P)

BOARD	EQ Board (H3)
SPEC.	Error Rate minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B08:RP PLL PHASE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust “B08:RP PLL PHASE” so that the video error rare is minimum.

5-3-11. PLL Slice Level Adjustment (R/P)

BOARD	EQ Board (H3)
SPEC.	Error Rate minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B09:RP PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B09:RP PLL SLICE" so that the video error rare is minimum.

5-3-12. EQ Adjustment (1) (R/P)

BOARD	EQ Board (H3)
SPEC.	Error Rate minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B20:RP MAIN DL (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust "B20:RP MAIN DL" so that the video error rare is minimum.

5-3-13. EQ Adjustment (2) (R/P)

BOARD	EQ Board (H3)
SPEC.	Error Rate minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B10:RP AEQ, B11:RP GAIN L, B12:RP PHASE L, B13:RP GAIN R B14:RP PHASE R (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode on VTR.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust the each EVR so that the error rate is minimum.

Procedures	Adjust VR	**Correspond of Error Rate Portion**
1	RP AEQ	VIDEO R & L CH
2	RP GAIN L	VIDEO L CH
3	RP PHASE L	VIDEO L CH
4	RP GAIN R	VIDEO R CH
5	RP PHASE R	VIDEO R CH

5-3-14.PLL Latch Phase Fine Adjustment (R/P)

BOARD	EQ Board (H3)
SPEC.	Error Rate minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B08:RP PLL PHASE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode on VTR.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust RP PLL PHASE so that the error rate is minimum.

5-3-15. PLL Slice Level Fine Adjustment (R/P)

BOARD	EQ Board (H3)
SPEC.	Error Rate minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B09:RP PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Monitor TV

1. Set the Error Rate display mode on VTR.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust “B09:RP PLL SLICE” so that the error rate is minimum.

5-3-16. PLL Lock Confirmation (Consumer DV)

BOARD	EQ Board (H3)
SPEC.	-------------
TEST	Monitor TV
ADJUST	B02:PB PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode on VTR.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape and confirm the picture appears on the monitor.
   If picture is not appeared adjust “B02:PB PLL SLICE.” so that the picture appears on the monitor.
4. Repeat STOP to PLAY and confirm the picture is surely appeared.

5-3-17. PLL Slice Level Coarse Adjustment (Consumer DV)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B02:PB PLL SLICE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust “B02:PB PLL SLICE”, so that the video error rate is minimum.

5-3-18. EQ Adjustment (1) (Consumer DV)

BOARD	EQ (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B19:PB MAIN DL (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust “B19:PB MAIN DL” so that the video error rate is minimum.

5-3-19. EQ Adjustment (2) (Consumer DV)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B03:PB AEQ, B04:PB GAIN L, B05:PB PHASE L, B06:PB GAIN R, B07:PB PHASE R (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust each EVR so that the error rate is minimum.

Procedures	**Adjust VR**	**Correspond of Error Rate Portion**
1	PB AEQ	VIDEO R & L CH
2	PB GAIN L	VIDEO L CH
3	PB PHASE L	VIDEO L CH
4	PB GAIN R	VIDEO R CH
5	PB PHASE R	VIDEO R CH

5-3-20. PLL Slice Level Fine Adjustment (Consumer DV)

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B08:PB PLL PHASE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	RP H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Adjust “B08:PB PLL SLICE” so that the video error rate becomes minimum.

5-3-21. Consumer DV Viterbi Confirmation

BOARD	EQ Board (H3)
SPEC.	Error Rate Minimum
TEST	Error Rate Level Meter (Front display)
ADJUST	B23:VTB GAIN, B01:PB PLL PHASE (EVR on EQ ADJUST menu)
INPUT	-------------
MODE	PLAY
TAPE	(Consumer DV Alignment Tape) NTSC:VFM3010EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode.
2. Open the EQ ADJUST menu on Service menu and set as follows.

B28	ERROR MODE	FAST
B27	PB MODE	PB H
B26	VITERBI MODE	OFF
B25	CONCEAL MODE	OFF
B24	ECC MODE	AL OFF

3. Playback the Alignment tape.
4. Confirm the error rate is improved by Viterbi on. The improvement can be confirmed by the error rate meter decrease 5 scale on the front audio meter.
5. If the error rate is not improved so much, adjust "B23:VTB GAIN" and "B01:PB PLL PHASE".

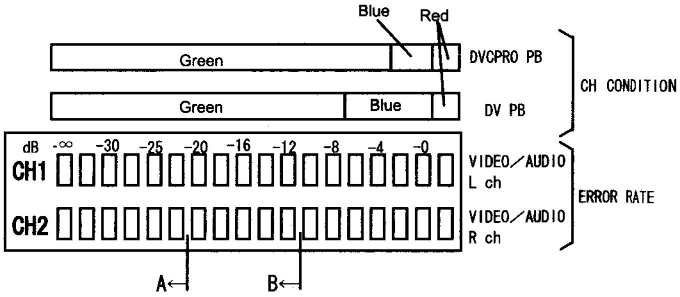
5-3-22.Final confirmation of Error Rate.

BOARD	EQ Board (H3)
SPEC.	DVCPRO (PB mode) : under the A
	DV (PB mode) : under the B
TEST	Error Rate Level Meter (Front display)
MODE	PLAY
TAPE	(DVCPRO Alignment Tape) NTSC: VFM3580KM, PAL: VFM3680KM (Consumer DV Alignment Tape) NTSC:VFM3110EDS, PAL:VFM3110EDS
M.EQ	Monitor TV

1. Set the Error Rate display mode
2. Open the EQ ADJUST menu on Service menu and set as follows.

ITEM of the MENU	DVCPRO	DV
B28: ERROR MODE	FAST	FAST
B27: PB MODE	PB H	RP H
B26: VITERBI MODE	ON	ON
B25: CONCEAL MODE	OFF	OFF
B24: ECC MODE	AL OFF	AL OFF

3. Set the Audio Channel indicator to "CH2" by pressing DIAG button (Video error is appeared on the Audio meter).
4. Confirm that the Error rate in specification, on DVCPRO playback and DV playback mode.



5-4. REC AMP Board

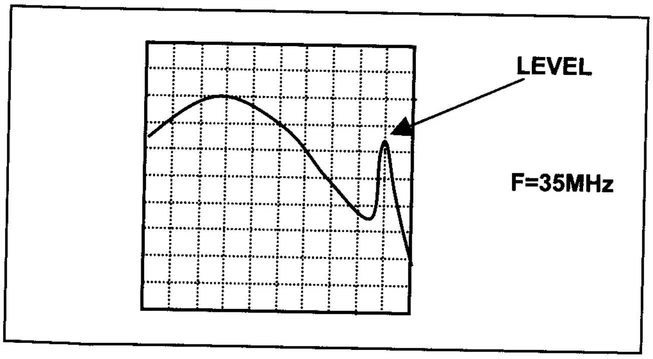
5-4-1. REC Current, Frequency Characteristic Adjustment

BOARD	RF AMP (H4)
SPEC.	-------------
TEST	TP17,TG7 (GND), TP2 (TRIG)
ADJUST	C01:REC CURR L, C03:REC CUR R C02:REC FREQ L, C04:REC FREQ R (EVR on RF ADJUST menu) VC600,VC601
INPUT	100% Colour bar
MODE	PLAY, REC / PLAY
TAPE	NTSC: VFM3580KM, PAL: VFM3680KM Blank Tape
M.EQ	Spectrum Analyzer / Monitor TV (Connect to VIDEO 3 OUT)

1. Connect the trigger of spectrum Analyzer at TP2 and connect the Spectrum Analyzer in at TP17 with 50ohm coaxial cable (Use GND at TG7).
2. Set the Error Rate display mode.
3. Open the RF ADJUST menu on Service menu and set as follows.

C20	ERROR MODE	FAST
C19	PB MODE	PB H
C18	VITERBI MODE	ON
C17	CONCEAL MODE	OFF
C16	ECC MODE	AL OFF

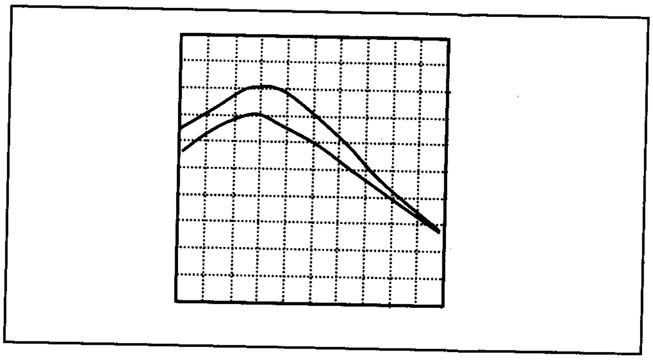
4. Playback the Alignment tape and Store the waveform on the spectrum Analyzer in TRACE-A.
5. Eject the Alignment tape and insert a Blank tape and record a colour bar 100% signal.



6. Set the TRACE-B mode on Spectrum Analyzer and Adjust VC600 and VC601 so that the peak level of 35MHz portion is minimum.
7. Adjust "C01:REC CUR L" and "C03:REC CUR R" so that the level of 5MHz portion is become –4dB±0.5dB per the waveform of TRACE-A.
8. Adjust "C02:REC FREQ L" and "C04:REC FREQ R" so that the level at 20MHz portion is become maximum.

POINT: Set the confidence playback level is lower less than level of TRACE-A and increase the gain gradually by Search Dial so that the level is maximum.
Please set the adjustment value in the first place the level is become maximum.

9. Confirm that the error rate is less than –12dB digit on the level meter.(Refer to item 5-3-22)
10. If the level of TRACE-B is not same as TRACE-A, confirm that the level of TRACE-B is within 0 to –2dB against TRASE-A (spec: 0 to –2dB).
11. Record for one minute keeping the above condition. Then playback the just recorded potion and confirm the error rate is same or better than DVCPRO playback (Refer to item 5-3-22 : equivalent level of DVCPRO Alignment tape playback).



■ **ITEM PARAMETER**

REF. LEVEL	-25dB
ATT	10dB
DIV	5dB/DIV
START FREQUENCY	0KHz
STOP FREQUENCY	40MHz
RES VW	1MHz
VBW	3KHz
SWEEP	300msec
TRIGGER	EXT(HEAD SW)

5-4-2. Rotary Erase Current Adjustment

BOARD	RF AMP (H4)
SPEC.	1.0 ± 0.12V
TEST	TP11, TP12
ADJUST	VR13, VR14
INPUT	100% Colour Bar
MODE	REC / PLAY
TAPE	Blank Tape
M.EQ	Oscilloscope

1. Insert a REC/PLAY tape auto record a 100% colour bar signal.
2. Connect a scope to TP11 with 10:1 probe and adjust VR 13 (RE A) so that the DC level is in the specification (1.0V ± 0.12V).
3. Then connect the scope to TP12 and adjust VR14 (RE B) so that the DC level is in the specification (1.0V ± 0.12V).

6. REC PB

6-1. PLL Lock DC Level Adjustment

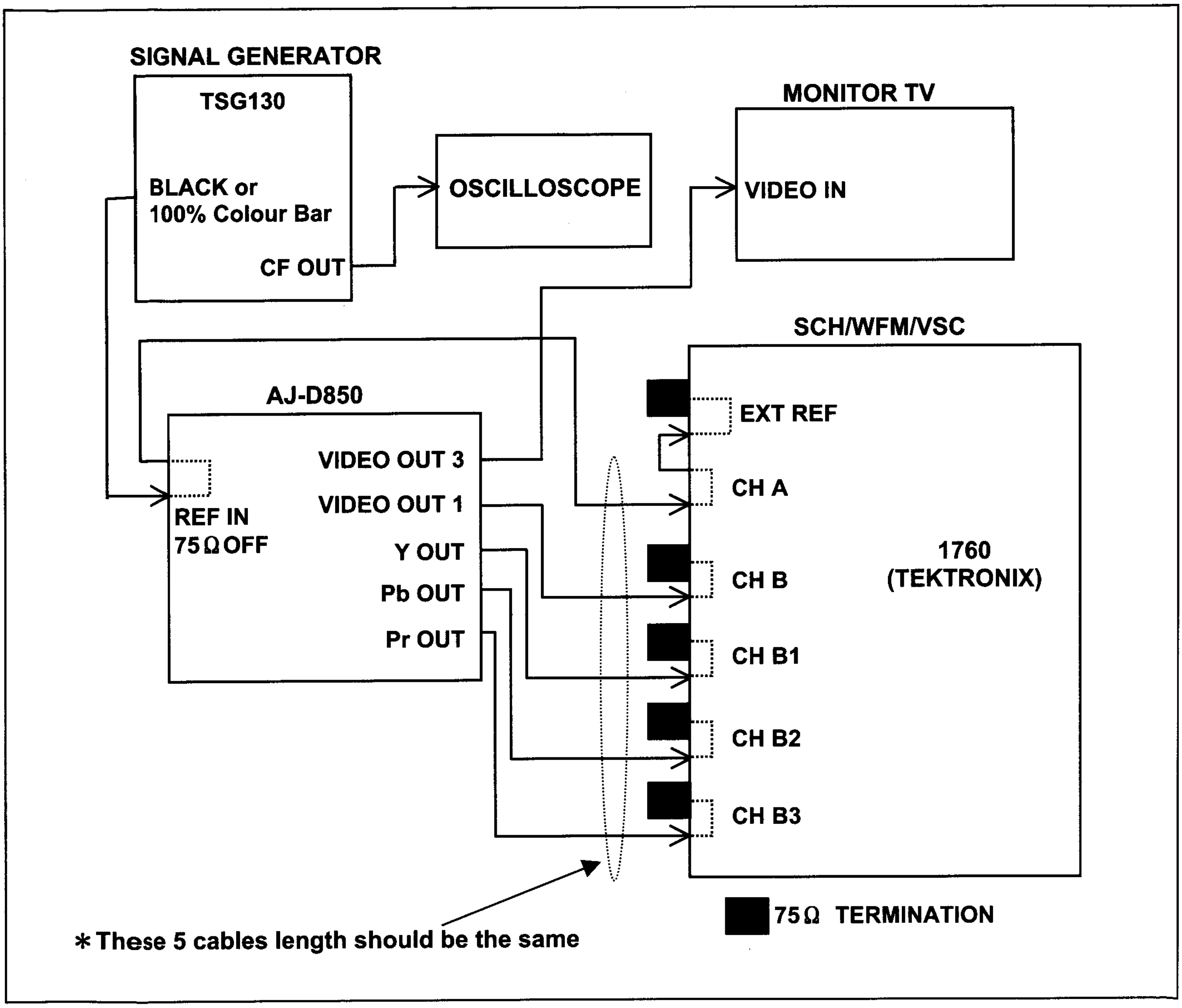
P.C.B.	REC PB (F5)
SPEC.	0.0V ± 0.2V
TEST	TP113
ADJ.	VC1
INPUT	----------
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

1. Adjust VC170 so that the DC level is in specification.

7. Video Out P. C. Board (F4) [FOR NTSC ONLY]

Please warm up the VTR about 10 minute before adjustment.

CONNECTION


SIGNAL GENERATOR
TSG130
BLACK or
100% Colour Bar
CF OUT
OSCILLOSCOPE
MONITOR TV
VIDEO IN
SCH/WFM/VSC
AJ-D850
REF IN
75Ω OFF
VIDEO OUT 3
VIDEO OUT 1
Y OUT
Pb OUT
Pr OUT
EXT REF
CH A
CH B
CH B1
CH B2
CH B3
1760
(TEKTRONIX)
75Ω TERMINATION
∗These 5 cables length should be the same

7-1. DA Reference Voltage Adjustment

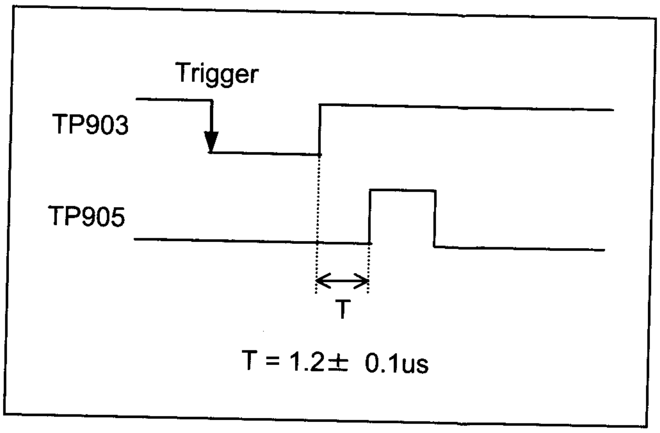
P.C.B.	V_OUT (F4)
SPEC.	3.9V± 0.05VDC
TEST	TP300 (H-3)
ADJ.	VR300 (G-1)
INPUT	REF IN: Composite 75% color bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

Adjust VR300 so that the voltage is 3.9V± 0.05VDC.

7-2. Sampling Position Adjustment

P.C.B.	V_OUT (F4)
SPEC.	1.2± 0.1us
TEST	TP903 (D-1), TP905 (C-2)
ADJ.	VR900 (C-1)
INPUT	REF IN: Composite 75% color bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

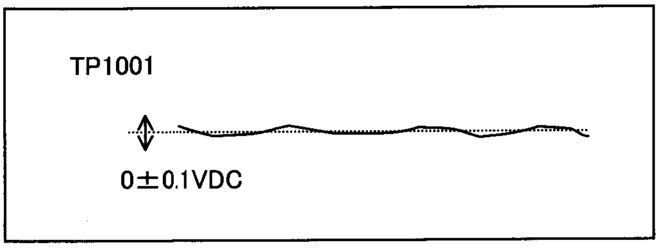
Adjust VR900 so that the phase difference is 1.2± 0.1us between the rising edge at TP903 and the rising edge at TP905 as shown in figure.



7-3. PLL Center Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0V± 0.1VDC
TEST	TP1001 (D-1)
ADJ.	VC1000 (D-2)
INPUT	REF IN: Composite 75% color bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

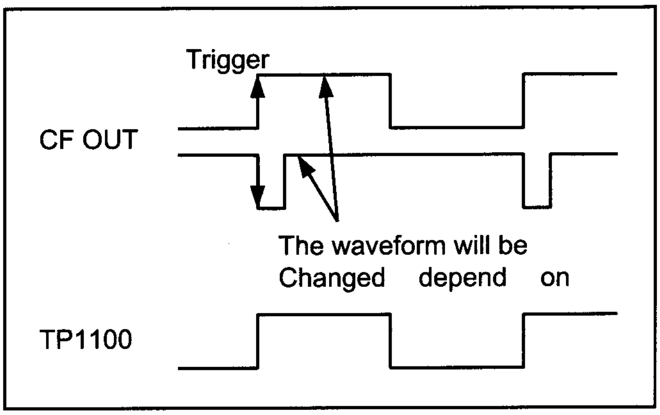
1. Adjust VC1000 so that the voltage is 0V ± 0.1VDC.


TP1001
0±0.1VDC

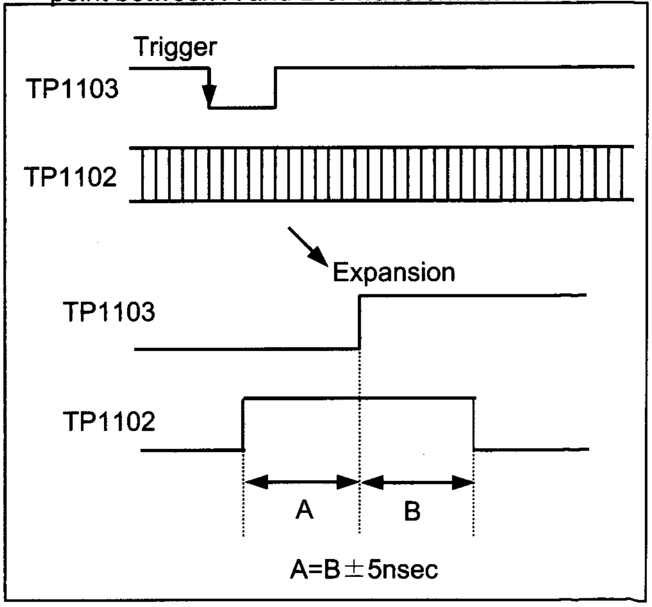
7-4. REF CF Detection Adjustment

P.C.B.	V_OUT (F4)
SPEC.	See Figure, A = B±5%
TEST	TP1100 (C-2), CF Out of Signal SG TP1102 (C-2), TP1103 (C-2)
ADJ.	VR901 (C-1)
INPUT	REF IN: Composite 75% Color Bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

1. Connect the oscilloscope CH1 to the CF output of composite signal generator and CH2 to TP1100.
2. Adjust VR901 so that the phase is synchronized between CF pulses and TP1100 as shown in figure.


Trigger
CF OUT
The waveform will be Changed depend on
TP1100

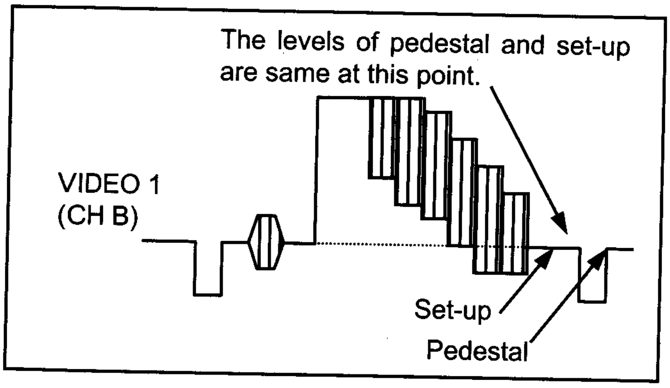
3. Connect the oscilloscope CH1 to TP1103 and CH2 to TP1102.
4. Expand (delay) the rising edge of TP1103.
5. Slowly and slightly rotate VR901 so that the rising edge of TP1103 is positioned at the center of cross point between A and B of waveform at TP1102.


Trigger
TP1103
TP1102
Expansion
TP1103
TP1102
A
B
A=B±5nsec

7-5. Composite Set-up Adjustment

P.C.B.	V_OUT (F4)
SPEC.	Set-up Level = Pedestal Level±1RE
TEST	VIDEO OUT 1
ADJ.	VR802 (J-2)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

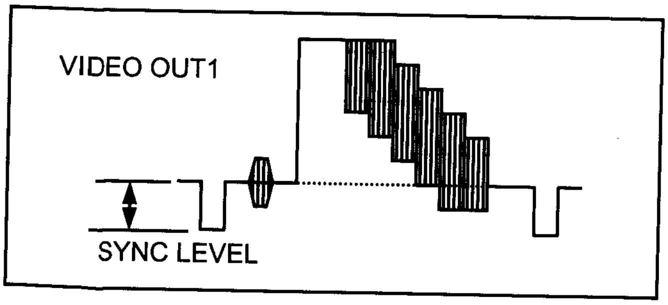
1. Open the VIDEO ADJUST menu on Service Menu and set item "D08: V SETUP" to ON.(Only AJ-D450)
2. Set the item "613:V IN SETUP" and "614:V OUT SETUP" to "THRU" on SET UP menu.(Only AJ-D450)
3. Adjust VR802 so that the set-up level is the same level as the pedestal level.


The levels of pedestal and set-up are same at this point.
VIDEO 1
(CH B)
Set-up
Pedestal

7-6. Sync Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	40IRE±1%
TEST	VIDEO OUT 1
ADJ.	VR400 (G-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

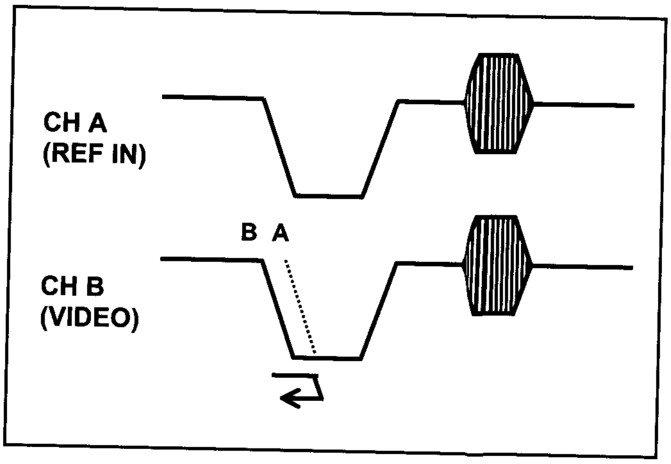
1. Adjust VR400 so that the Sync Level is 40IRE±1%.


VIDEO OUT1
SYNC LEVEL

7-7. H Phase Adjustment

P.C.B.	V_OUT (F4)
SPEC.	Refer to below description
TEST	REF IN (CHA), VIDEO OUT 1 (CHB)
ADJ.	VR1100 (B-1)
INPUT	REF IN: Composite 75% Color Bar
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

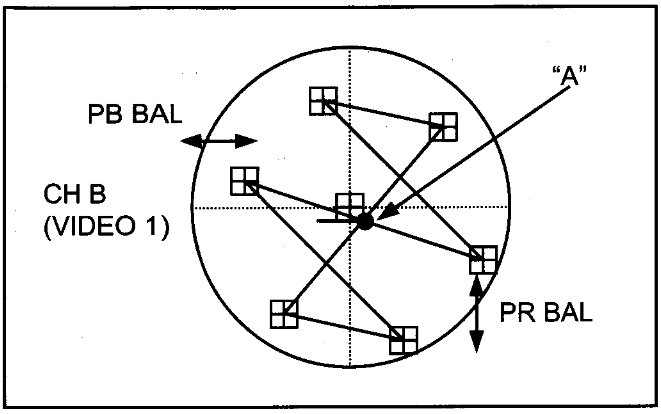
1. Set WFM in the EXT-REF MODE.
2. Adjust VR1100 so that the phase synchronized between REF IN (CHA) and VIDEO OUT 1 (CHB). Please follow the below indicated procedure.
   (1). Adjust VR1100 so that the H Phase of V OUT is at A Position.
   (2). After the item (1), adjust VR1100 so that the H Phase of V OUT is at A Position.


CH A
(REF IN)
B A
CH B
(VIDEO)

7-8. Carrier Balance Adjustment

P.C.B.	V_OUT (F4)
SPEC.	Cross point "A" at the center of scope.
TEST	VIDEO OUT 1
ADJ.	VR505 (I-1), VR506 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Vector Scope

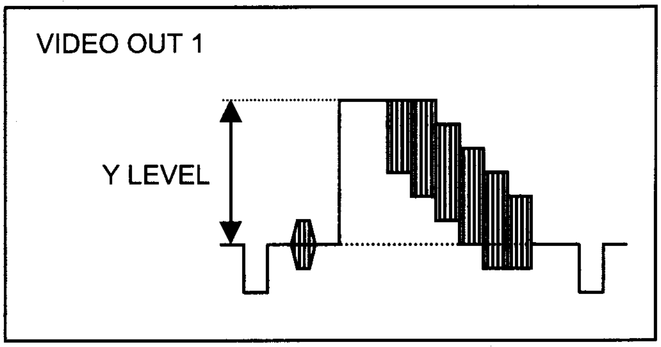
1. Adjust VR505 (PB BAL) and VR506 (PR BAL) so that the cross point "A" is positioned at the center of the vector scope.



7-9. Composite Y Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	100IRE±1%
TEST	VIDEO OUT 1
ADJ.	VR800 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

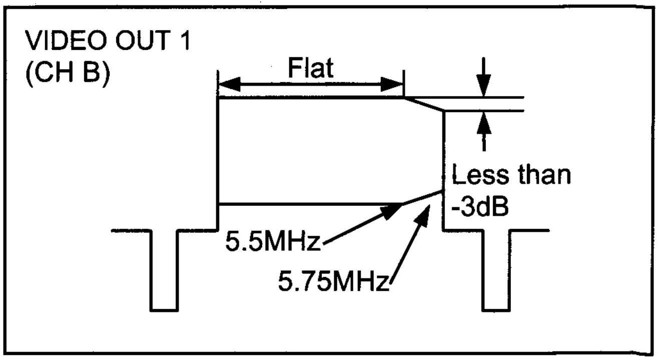
1. Adjust VR800 so that the Y level is 100IRE±1%.



7-10. Composite Y Frequency Response Adjustment

P.C.B.	V_OUT (F4)
SPEC.	5.5MHz = Less than –3dB
TEST	VIDEO OUT 1
ADJ.	VR801 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (H-Sweep portion)
M.EQ	Waveform Monitor

1. Adjust VR801 so that the frequency response becomes flat.
   a) The level of 5.5MHz portion is less than –3dB.
   b) The middle frequency is flat.

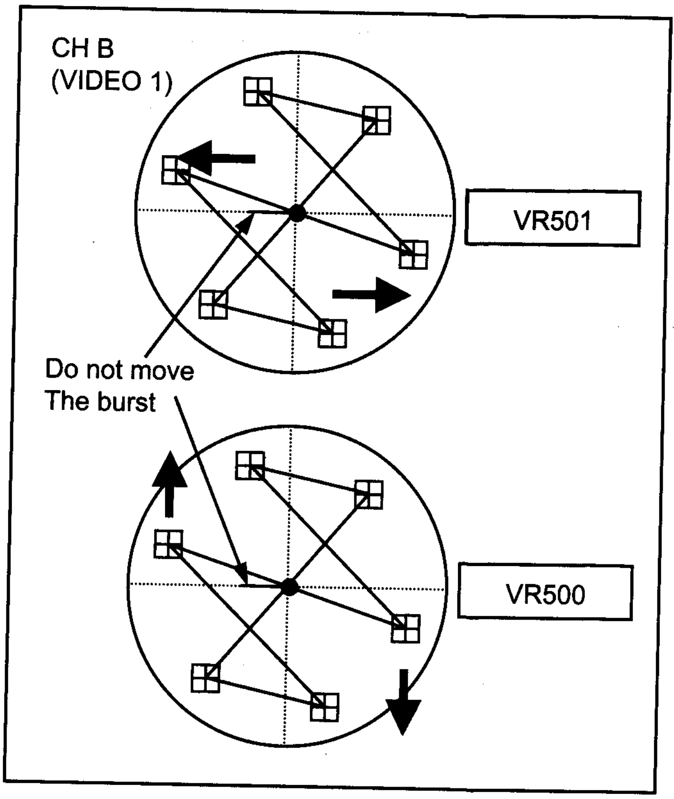


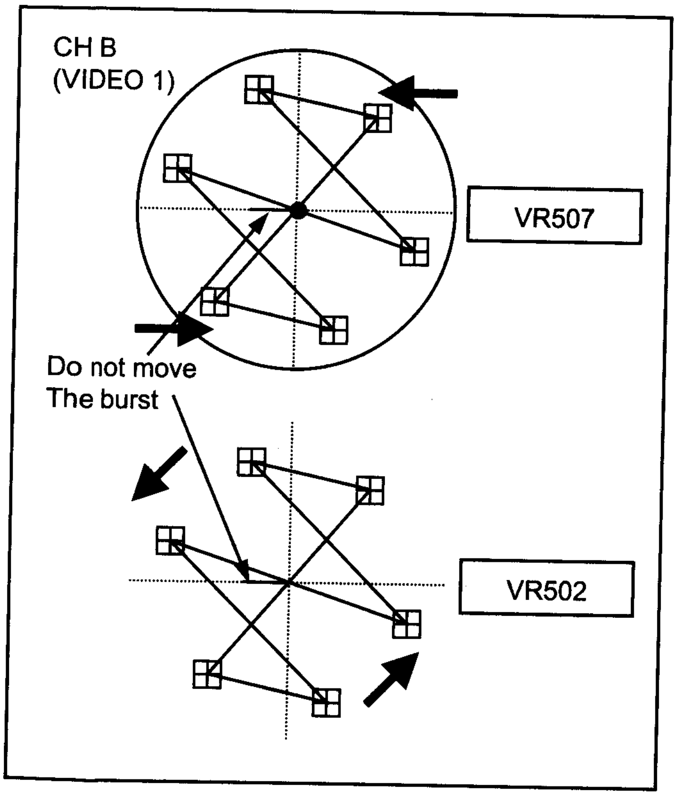
7-11. Vector Adjustment

P.C.B.	V_OUT (F4)
SPEC.	All vectors are in the Inner Boxes
TEST	VIDEO OUT 1
ADJ.	VR500 (H-1), VR502 (H-1) VR501 (H-1), VR507 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Vector Scope

1. Set the burst position on the Vector Scope at correct position.
2. Adjust the following VR's so that the color bar's each vector points are in the square mark on the vector scope.

   VR507 : Quad Phase
   VR502 : Hue Phase
   VR501 : Encode PB Level
   VR500 : Encode PR Level

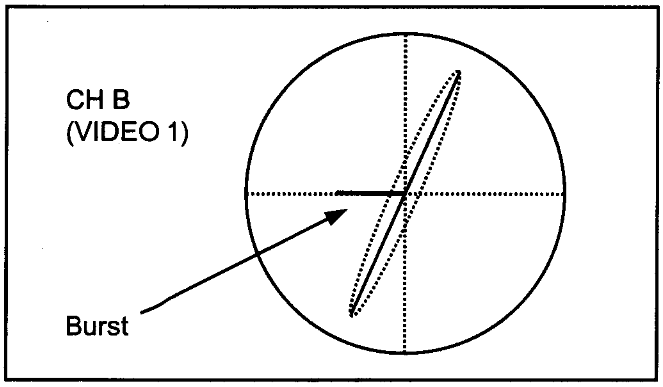

CH B
(VIDEO 1)
VR501
Do not move
The burst
VR500


CH B
(VIDEO 1)
VR507
Do not move
The burst
VR502

7-12. Composite Pb/Pr Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec
TEST	VIDEO OUT 1
ADJ.	VR307 (F-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (Bowtie portion)
M.EQ	Vector Scope

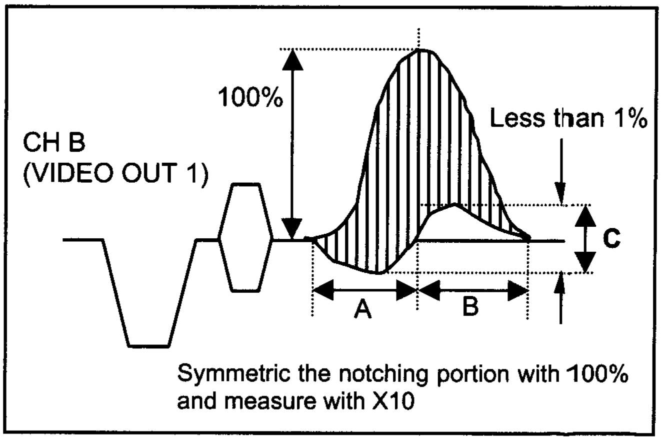
1. Adjust VR307 so that the signal on the vector scope becomes 1 straight lines (X) as shown in figure.


CH B
(VIDEO 1)
Burst

7-13. Composite Y/C Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec (C = less than 1%)
TEST	VIDEO OUT 1
ADJ.	VR803 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (Pulse Bar portion)
M.EQ	Waveform Monitor

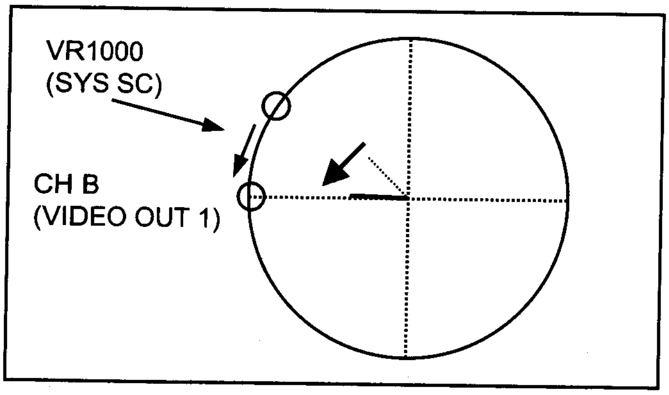
1. Adjust VR803 so that the portion A and B are become symmetric left and right and level of portion C less than 1% against level of waveform 100% as shown in figure.
2. When performing this adjustment, the level of waveform may be changed. Therefore, level of waveform is adjusted by Chroma VR on the front panel during this adjustment.
3. After finish this adjustment set the Chroma VR to preset position.
4. After completion of this adjustment, "7-14. Sub-Carrier Phase Adjustment" should be performed.


100%
Less than 1%
CH B
(VIDEO OUT 1)
C
A
B
Symmetric the notching portion with 100%
and measure with X10

7-14. Sub-Carrier Phase Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±1degree
TEST	VIDEO OUT 1 (CHB), REF IN (CHA)
ADJ.	VR1000 (B-1)
INPUT	REF IN: Composite 75% Color Bar
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	SCH Meter

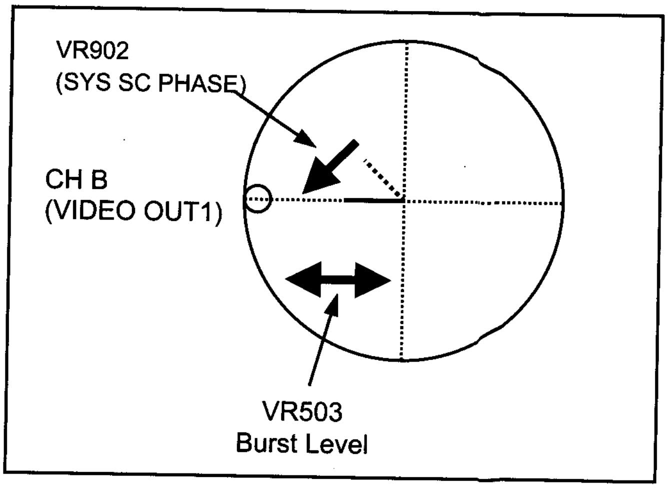
1. Adjust VR1000 so that the SCH of VIDEO OUT(CHB) is same as EXT-REF-IN(CHA), then SCH phase should be become 0±1 degree.

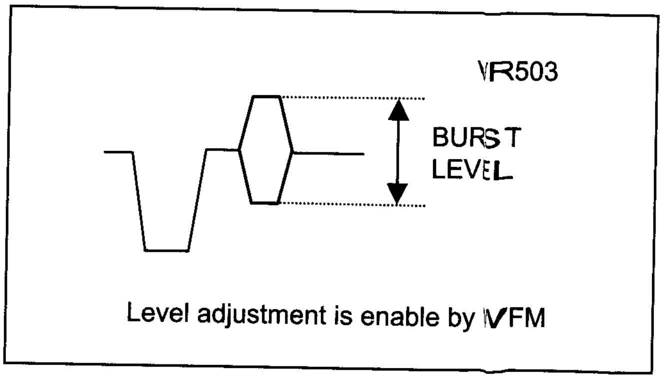

VR1000
(SYS SC)
CH B
(VIDEO OUT 1)

7-15. Burst Adjustment

P.C.B.	V_OUT (F4)
SPEC.	PHASE: 0±1degree LEVEL: 40±0.4IRE
TEST	VIDEO OUT 1
ADJ.	VR902 (B-1), VR503 (H-1)
INPUT	REF IN: Composite 75% Color Bar
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	SCH Meter

1. Adjust VR902 while changing the channels A and B of the SCH meter alternately so that the SCH is 0 degree.
2. Adjust VR503 while changing the channels A and B of the SCH meter alternately so that the burst level and burst phase are become same between VIDEO 1 OUT(CHB) and REF(CHA),then burst level is should be become 40±0.4IRE.


VR902
(SYS SC PHASE)
CH B
(VIDEO OUT1)
VR503
Burst Level

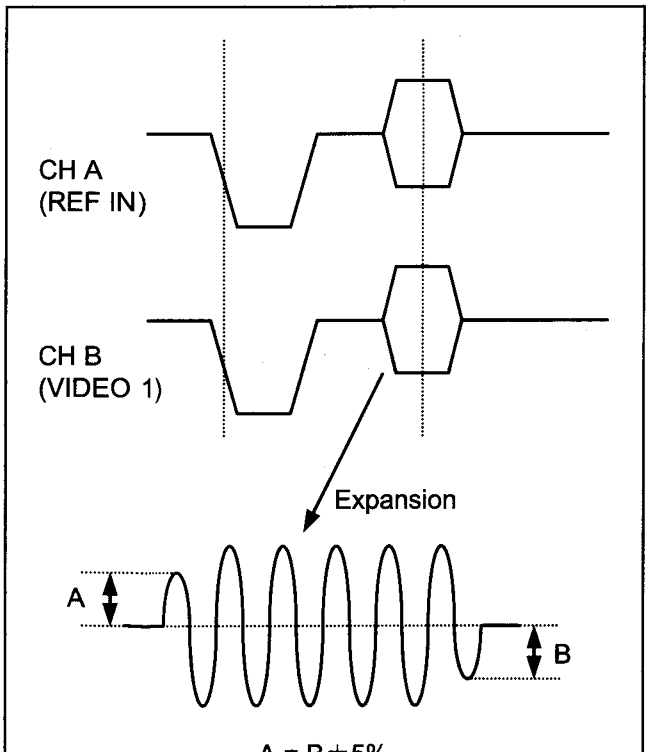

VR503
BURST
LEVEL

Level adjustment is enable by VFM

7-16. Burst Position Adjustment

P.C.B.	V_OUT (F4)
SPEC.	A = B±5% (Level difference between A and B within 10mV)
TEST	VIDEO OUT 1(CHB), REF IN(CHA)
ADJ.	VR1102 (B-1)
INPUT	REF IN: Composite 75% Color Bar
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

1. Adjust VR1102 while changing the channels A and B of the vector scope alternately so that the center of the burst of the reference and VIDEO OUT 1 are phase synchronized and level difference between A and B portion in specification.



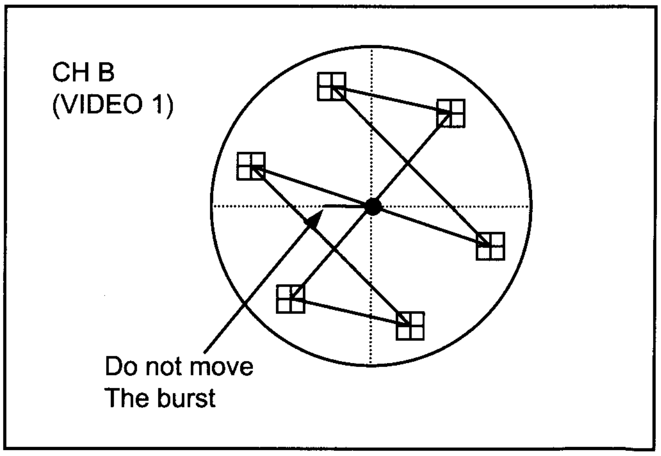
A = B±5%
Level difference between A and B within 10mV

7-17. Confirmation of Vector

P.C.B.	V_OUT (F4)
SPEC.	All vectors are in the Inner Boxes
TEST	VIDEO OUT 1
ADJ.	VR502 (H-1), VR501 (H-1) VR500 (H-1), VR507 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Vector Scope

1. Set the burst position on the Vector Scope at correct position.
2. Confirm that the color bar's each vector points are in the square mark on the vector scope.
3. If out of specification, adjust the following VR's so that the color bar's each vector points are in the square mark on the vector scope.(Refer to item 7-11. Vector Adjustment).

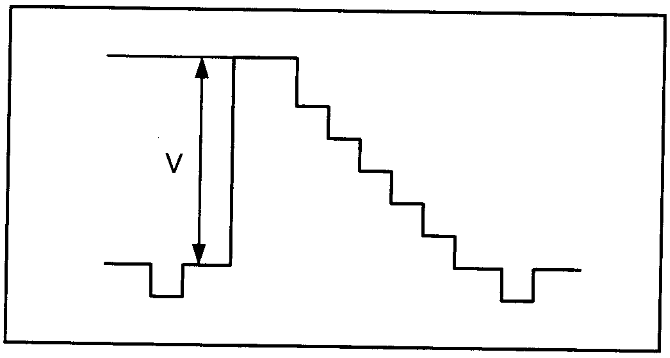
VR507 : Quad Phase
VR502 : Hue Phase
VR501 : Encode PB Level
VR500 : Encode PR Level



7-18. Component Y Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	V = 700mV±7mV
TEST	COMPONENT Y OUT
ADJ.	VR301 (G-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

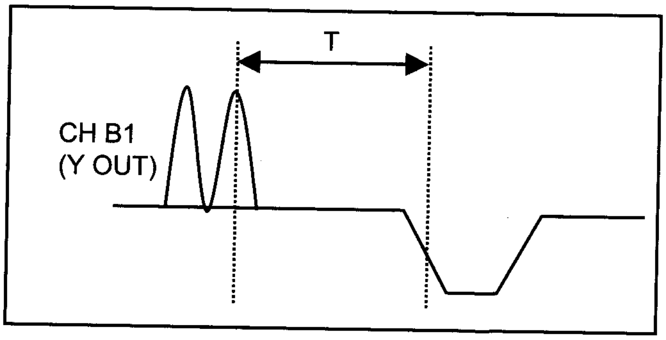
1. Set the SW400 to M Ⅱ side on V OUT P.C.Board..
2. Adjust VR301 so that the V level is 700mV±7mV.



7-19. Video Phase Adjustment

P.C.B.	V_OUT (F4)
SPEC.	T = 1.26±0.02usec
TEST	Y OUT
ADJ.	VR1050 (A-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (Area Marker portion)
M.EQ	Waveform Monitor

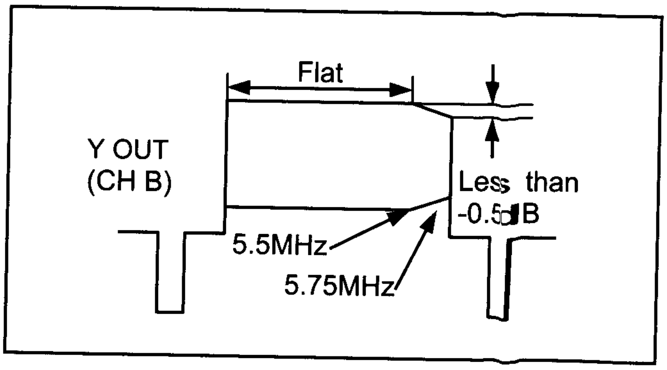
1. Open the Video Adjust menu on Service menu and set item “D01:VIDEO BLANK” to OFF position.
2. Adjust VR1050 so that the timing T is within specification.
3. After finish this adjustment, set to ON position of item “D01:VIDEO BLANK”.



7-20. Component Y Frequency Response Adjustment

P.C.B.	V_OUT (F4)
SPEC.	5.5MHz = Less than –0.5dB
TEST	COMPONENT Y OUT
ADJ.	VR304 (F-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (H Sweep portion)
M.EQ	Waveform Monitor

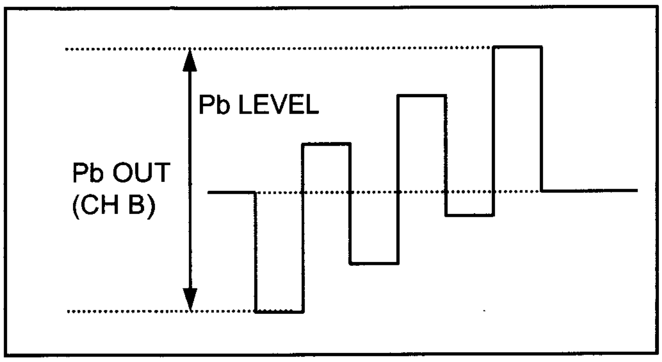
1. Adjust VR304 so that the frequency response becomes flat.



7-21. Component Pb Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	525mV±5mV
TEST	COMPONENT PB OUT
ADJ.	VR306 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

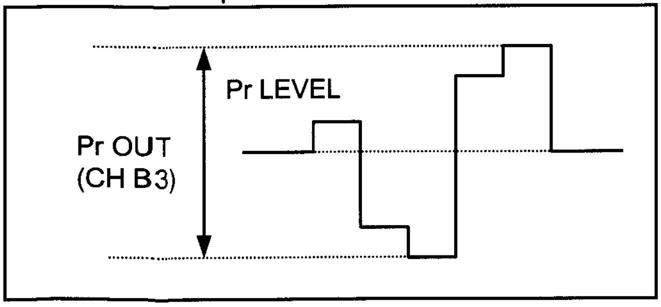
1. Set the SW400 to M Ⅱ side on V OUT P.C.Board..
2. Adjust VR306 so that the Pb level of component out is within specification.



7-22. Component Pr Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	525mV±5mV
TEST	COMPONENT Pr OUT
ADJ.	VR305 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

1. Set the SW400 to M Ⅱ side on V OUT P.C.Board..
2. Adjust VR305 so that the Pr level of component out is within specification.

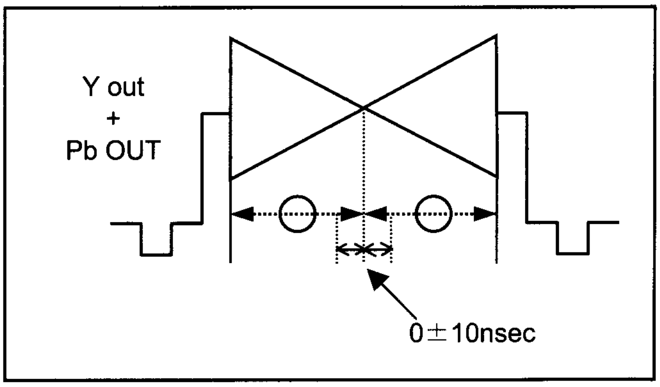


7-23. Component Y/Pb Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec
TEST	COMPONENT Y OUT, PB OUT
ADJ.	VR303 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (Bowtie portion)
M.EQ	Waveform Monitor

1. Set the waveform monitor in the YC timing measuring mode (CH B1 + CH B2).
2. Adjust VR303 so that the cross point of the envelope is at the center.

Note: Incase of WFM monitor does not have Y-Pb timing adjustment mode, if the oscilloscope have "ADD" and "INVERT" switch, please use those switch for make below waveform.

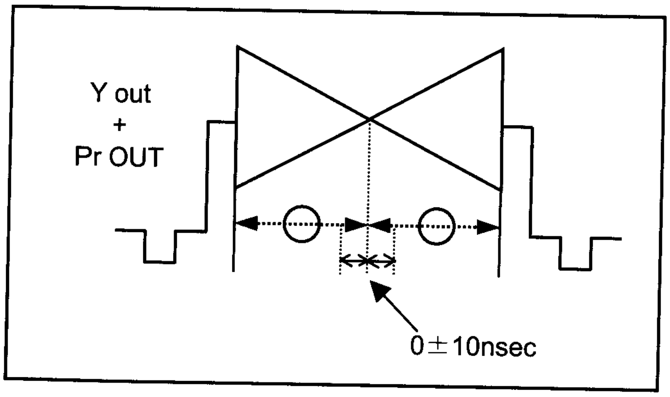


7-24. Component Y/Pr Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec
TEST	COMPONENT Y OUT, Pr OUT
ADJ.	VR302 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (Bowtie portion)
M.EQ	Waveform Monitor

1. Set the waveform monitor in the YC timing measuring mode (CH B1 + CH B3).
2. Adjust VR302 so that the cross point of the envelope is at the center.

Note: Incase of WFM monitor does not have Y-Pb timing adjustment mode, if the oscilloscope have "ADD" and "INVERT" switch, please use those switch for make below waveform.

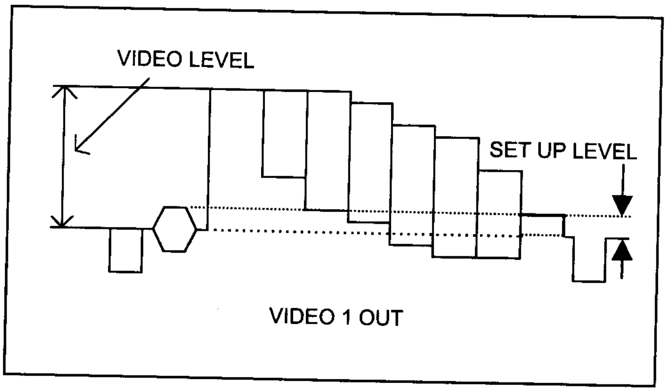


7-25. Composite Set up Adjustment (Set up ADD mode)

P.C.B.	V_OUT (F4)
SPEC.	Set up level = 7.5±0.5IRE
TEST	VIDEO 1 OUT
ADJ.	VR805 (G-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

1. Set the item "614: VOUT SET UP" to "ADD" on Set-up menu.
2. Adjust VR805 so that the Set-up level is 7.5± 0.5IRE.

NOTE: Signal have carrier leak and noise, therefore set Y-filter mode on WFM monitor.

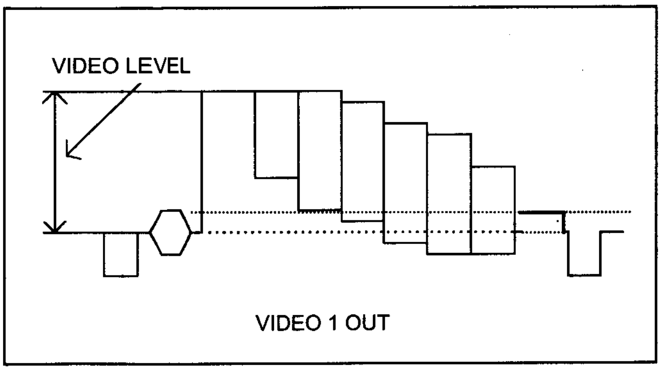


7-26. Composite Video Level Adj. (Set up ADD mode)

P.C.B.	V_OUT (F4)
SPEC.	Video level = 100±1 IRE
TEST	VIDEO 1 OUT
ADJ.	VR804 (G-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Waveform Monitor

1. Set the item "614: VOUT SET UP" to "ADD" on Set-up menu.
2. Adjust VR804 so that the Video level is 100±1 IRE.

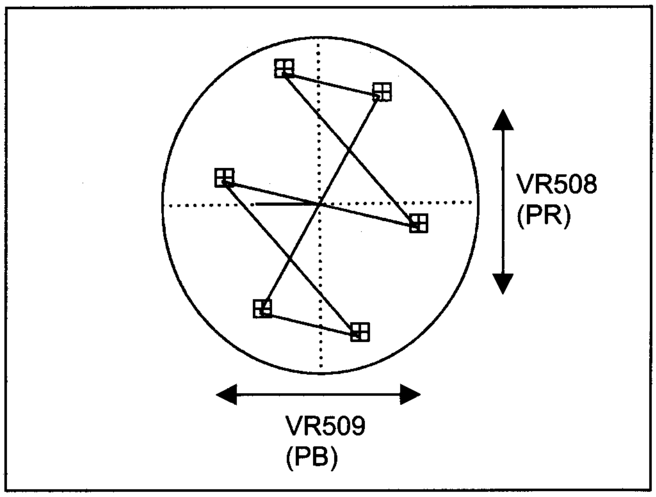
NOTE: Signal have carrier leak and noise, therefore set Y-filter mode on WFM monitor.



7-27. Vector Adjustment (Set up ADD mode)

P.C.B.	V_OUT (F4)
SPEC.	All vectors are in the Inner Boxes
TEST	VIDEO 1 OUT
ADJ.	VR508 (I-1),VR509 (I-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3580KM (75% Color Bar portion)
M.EQ	Vector Scope

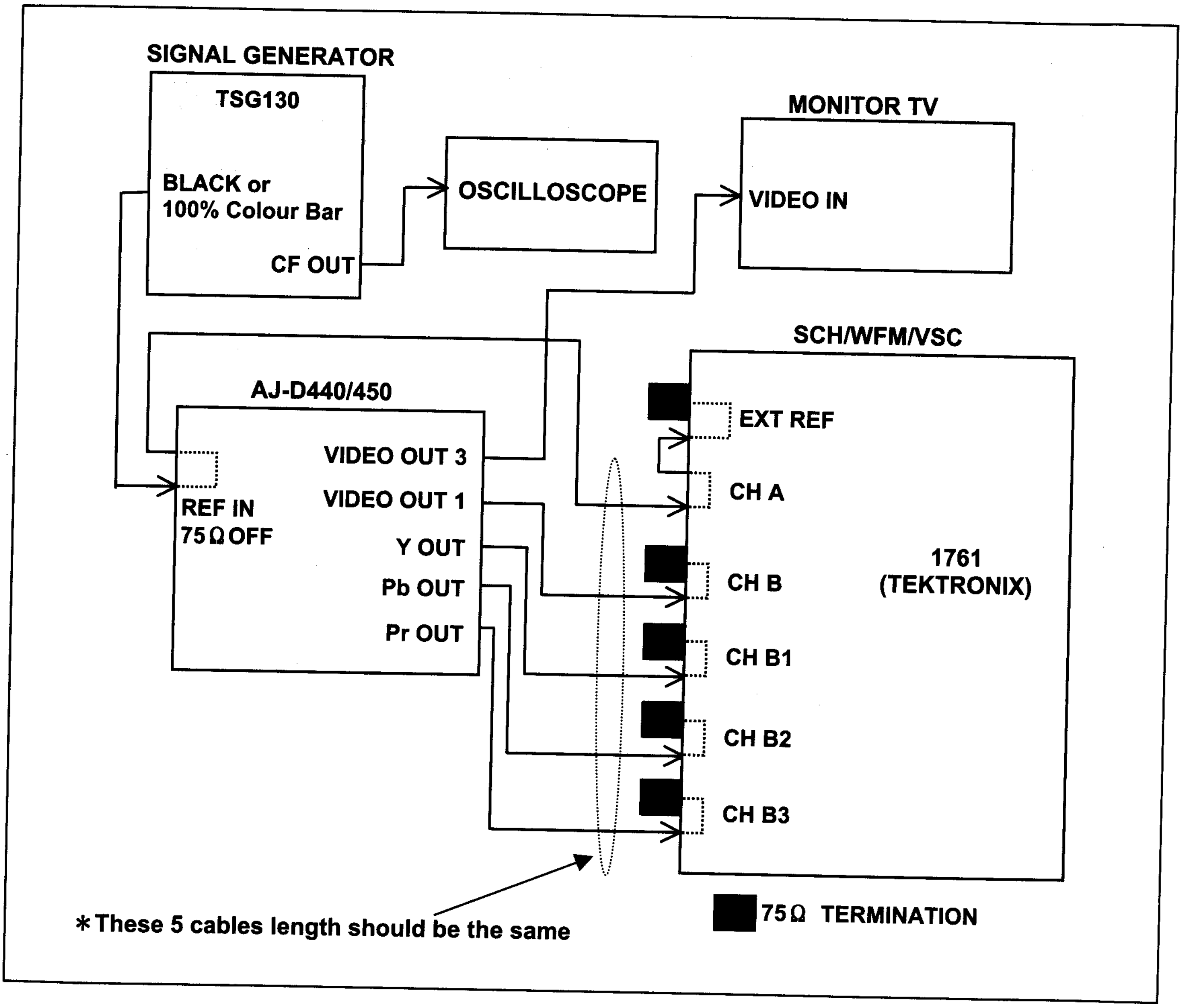
1. Set the item "614: VOUT SET UP" to "ADD" on Set-up menu.
2. Adjust VR508(PR) and VR509(PB) so that the each vector points are in the square mark on the vector scope.



7. Video Out P. C. Board (F4) [FOR PAL ONLY]

Please warm up the VTR about 10 minute before adjustment.

CONNECTION


SIGNAL GENERATOR
TSG130
BLACK or
100% Colour Bar
CF OUT
OSCILLOSCOPE
MONITOR TV
VIDEO IN
SCH/WFM/VSC
AJ-D440/450
REF IN
75Ω OFF
VIDEO OUT 3
VIDEO OUT 1
Y OUT
Pb OUT
Pr OUT
EXT REF
CH A
CH B
CH B1
CH B2
CH B3
1761
(TEKTRONIX)
75Ω TERMINATION

＊These 5 cables length should be the same

7-1. DA Reference Voltage Adjustment

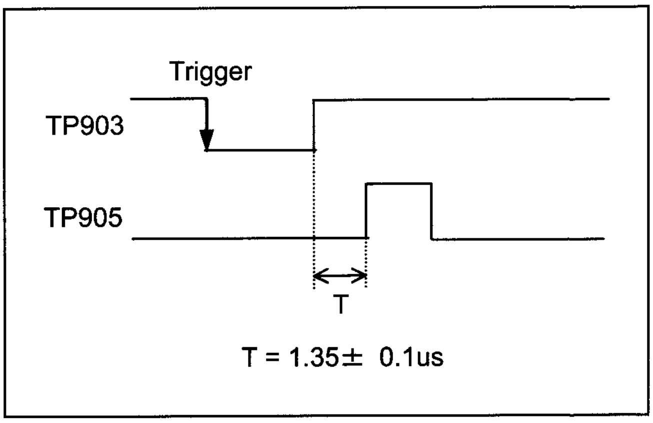
P.C.B.	V_OUT (F4)
SPEC.	3.9V± 0.05VDC
TEST	TP300 (H-3)
ADJ.	VR300 (G-1)
INPUT	REF IN: Composite 100% colour bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

Adjust VR300 so that the voltage is 3.9V± 0.05VDC.

7-2. Sampling Position Adjustment

P.C.B.	V_OUT (F4)
SPEC.	1.35± 0.05us
TEST	TP903 (D-1), TP905 (C-2)
ADJ.	VR900 (C-1)
INPUT	REF IN: Composite 100% colour bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

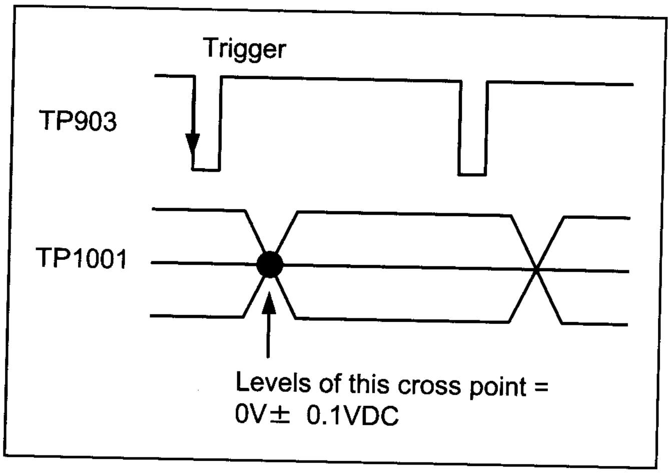
Adjust VR900 so that the phase difference is 1.35± 0.05us between the rising edge at TP903 and the rising edge at TP905 as shown in figure.



7-3. PLL Center Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0V± 0.1VDC
TEST	TP903 (D-1), TP1001 (D-1)
ADJ.	VC1000 (D-2)
INPUT	REF IN: Composite 100% colour bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

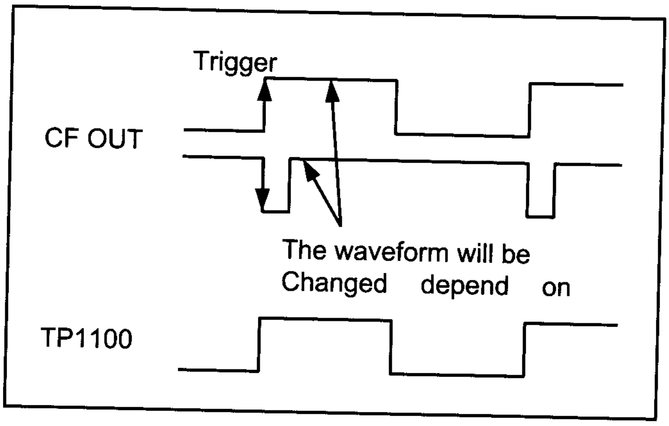
1. Adjust VC1000 so that the voltage is 0V ± 0.1VDC.


Trigger
TP903
TP1001
Levels of this cross point =
0V± 0.1VDC

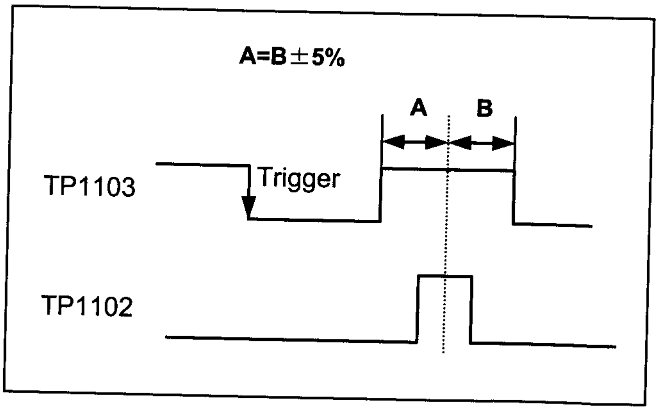
7-4. REF CF Detection Adjustment

P.C.B.	V_OUT (F4)
SPEC.	See Figure, A = B±5%
TEST	TP1100 (C-2), CF Out of Signal SG TP1102 (C-2), TP1103 (C-2)
ADJ.	VR901 (C-1)
INPUT	REF IN: Composite 100% Colour Bar
MODE	EE
TAPE	-----------
M.EQ	Oscilloscope

1. Connect the oscilloscope CH1 to the CF output of composite signal generator and CH2 to TP1100.
2. Adjust VR901 so that the phase is synchronized between CF pulses and TP1100 as shown in figure.


Trigger
CF OUT
The waveform will be
Changed depend on
TP1100

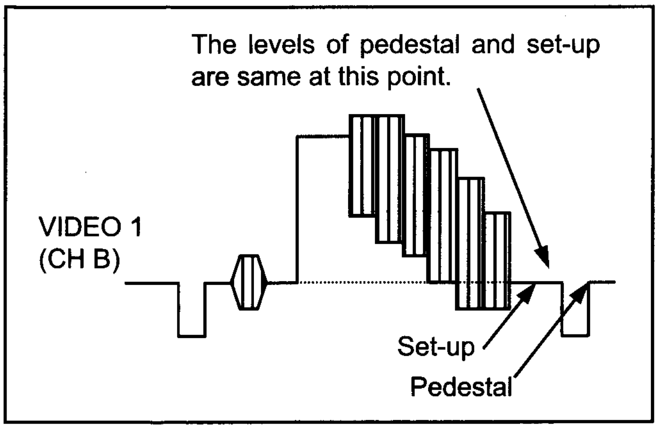
3. Connect the oscilloscope CH1 to TP1103 and CH2 to TP1102.
4. Expand (delay) the rising edge of TP1103.
5. Slowly and slightly rotate VR901 so that the high period of TP1103 is positioned at the center of stable waveform at TP1102.


A=B±5%
A
B
TP1103
Trigger
TP1102

7-5. Composite Set-up Adjustment

P.C.B.	V_OUT (F4)
SPEC.	Set-up Level = Pedestal Level±7mV
TEST	VIDEO OUT 1
ADJ.	VR802 (J-2)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Waveform Monitor

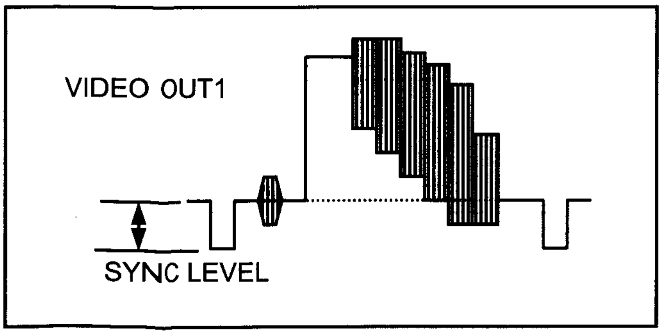
1. Adjust VR802 so that the set-up level is the same level as the pedestal level.


The levels of pedestal and set-up are same at this point.
VIDEO 1
(CH B)
Set-up
Pedestal

7-6. Sync Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	300mV±3mV
TEST	VIDEO OUT 1
ADJ.	VR400 (G-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Waveform Monitor

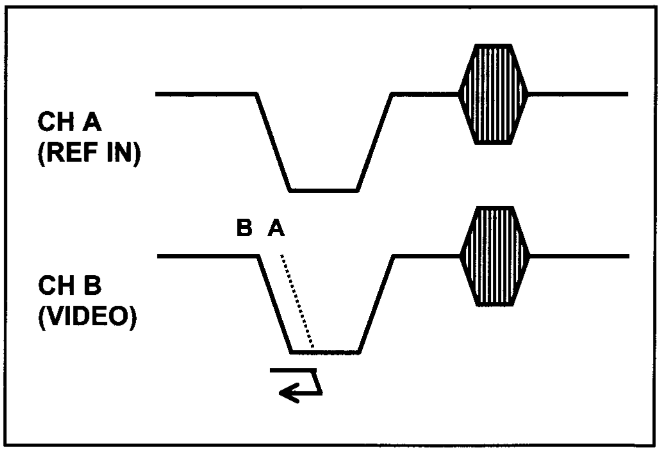
1. Adjust VR400 so that the Sync Level is 300mV± 3mV.


VIDEO OUT1
SYNC LEVEL

7-7. H Phase Adjustment

P.C.B.	V_OUT (F4)
SPEC.	Refer to below description
TEST	REF IN (CHA), VIDEO OUT 1 (CHB)
ADJ.	VR1100 (B-1)
INPUT	REF IN: Composite 100% Color Bar
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Waveform Monitor

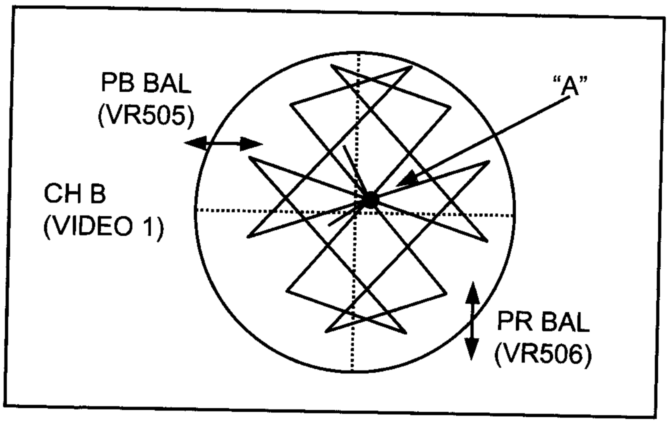
1. Set WFM in the EXT-REF MODE.
2. Adjust VR1100 so that the phase synchronized between REF IN (CHA) and VIDEO OUT 1 (CHB). Please follow the below indicated procedure.
   (1). Adjust VR1100 so that the H Phase of V OUT is at A Position.
   (2). After the item (1), adjust VR1100 so that the H Phase of V OUT is at A Position.


CH A
(REF IN)
B A
CH B
(VIDEO)

7-8. Carrier Balance Adjustment

P.C.B.	V_OUT (F4)
SPEC.	Cross point "A" at the center of scope.
TEST	VIDEO OUT 1
ADJ.	VR505 (I-1), VR506 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Vector Scope

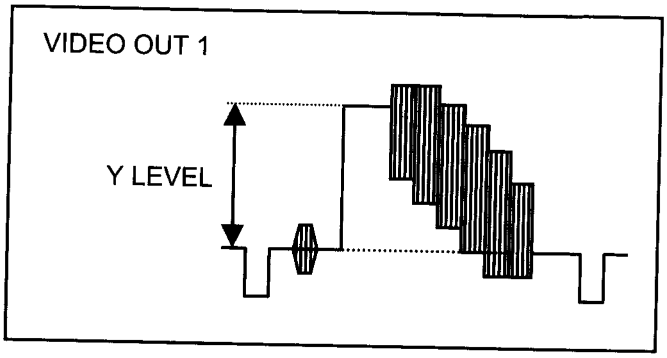
1. Adjust VR505 (PB BAL) and VR506 (PR BAL) so that the cross point "A" is positioned at the center of the vector scope.


PB BAL
(VR505)
"A"
CH B
(VIDEO 1)
PR BAL
(VR506)

7-9. Composite Y Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	700mV±5mV
TEST	VIDEO OUT 1
ADJ.	VR800 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Waveform Monitor

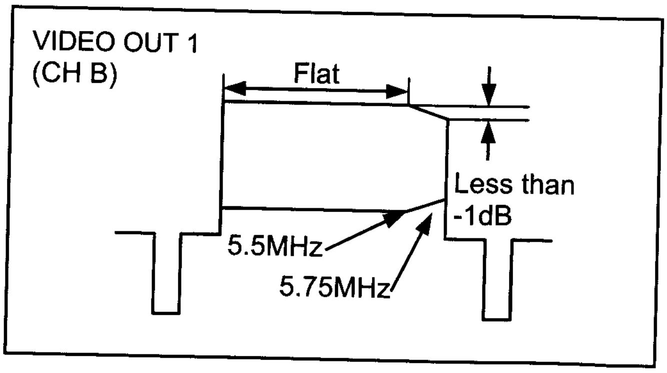
1. Adjust VR800 so that the Y level is 700mV±5mV.


VIDEO OUT 1
Y LEVEL

7-10. Composite Y Frequency Response Adjustment

P.C.B.	V_OUT (F4)
SPEC.	5.5MHz = Less than –1dB
TEST	VIDEO OUT 1
ADJ.	VR801 (I-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3680KM (H-Sweep portion)
M.EQ	Waveform Monitor

1. Adjust VR801 so that the frequency response becomes flat.
   a) The level of 5.5MHz portion is less than –1dB.
   b) The middle frequency is flat.

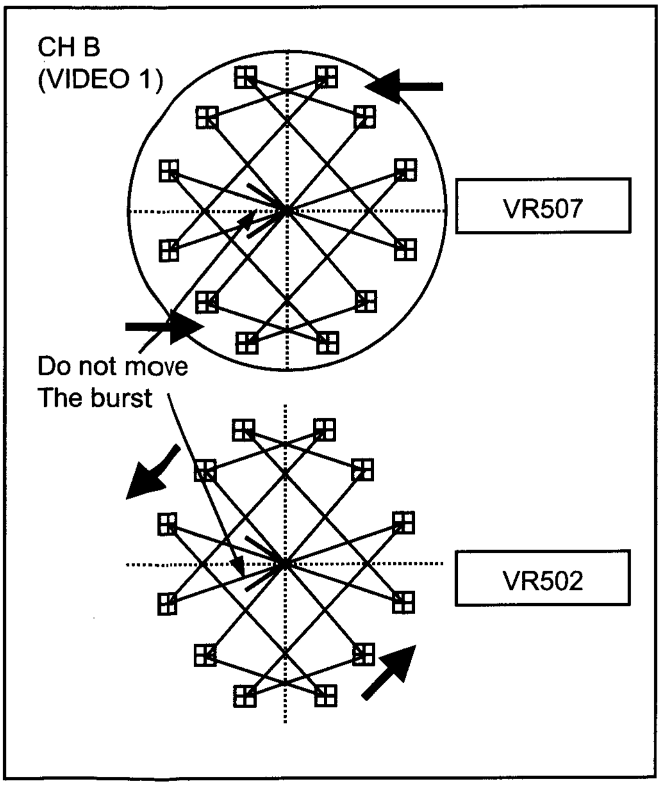

VIDEO OUT 1
(CH B)
Flat
Less than
-1dB
5.5MHz
5.75MHz

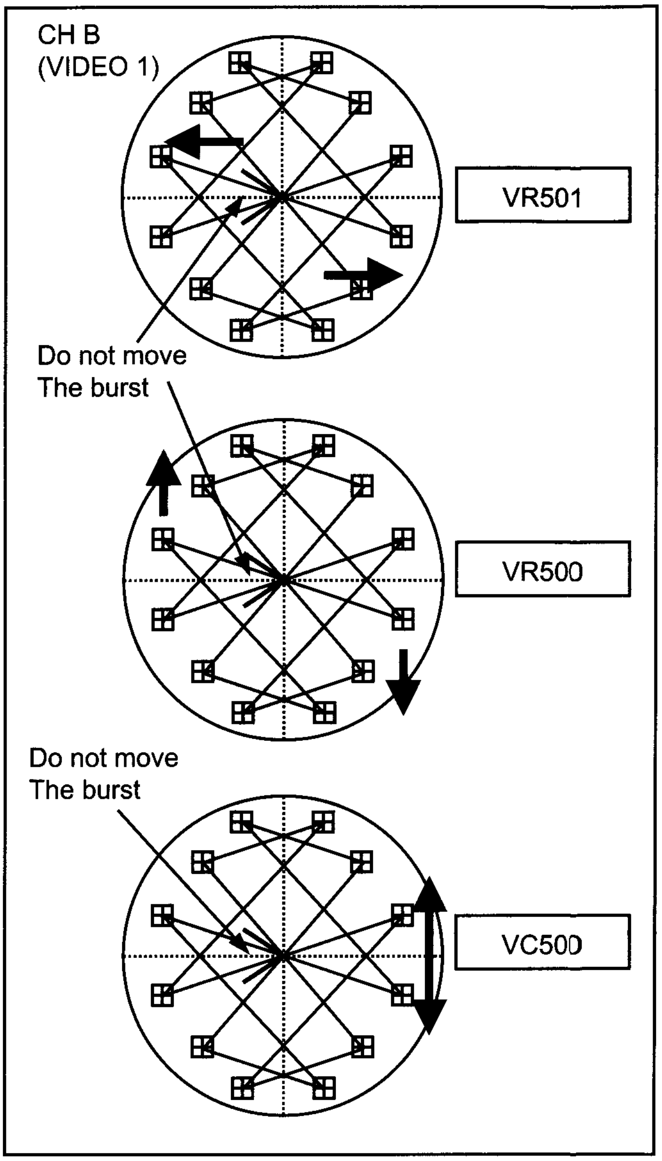
7-11. Vector Adjustment

P.C.B.	V_OUT (F4)
SPEC.	All vectors are in the Inner Boxes
TEST	VIDEO OUT 1
ADJ.	VR507 (I-1), VR502 (H-1), VR501 (H-1) VR500 (H-1), VC500 (I-3)
INPUT	-------------
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Vector Scope

1. Set the burst position on the Vector Scope at correct position.
2. Adjust the following VR's so that the colour bar's each vector points are in the square mark on the vector scope.

   VR507 : Quad Phase
   VR502 : Hue Phase
   VR501 : Encode PB Level
   VR500 : Encode PR Level
   VC500 : PAL Phase

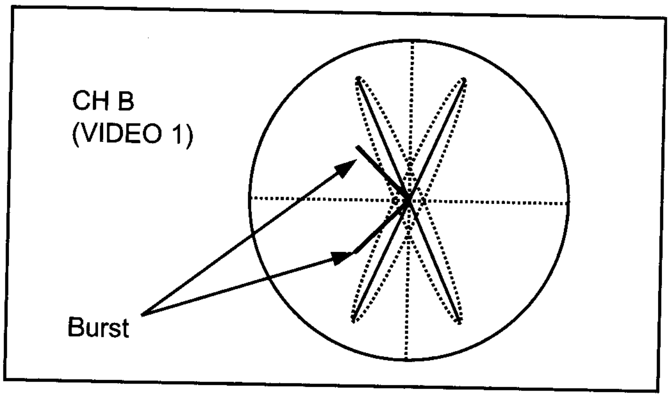

CH B
(VIDEO 1)
VR507
Do not move
The burst
VR502


CH B
(VIDEO 1)
VR501
Do not move
The burst
VR500
Do not move
The burst
VC500

7-12. Composite Pb/Pr Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec
TEST	VIDEO OUT 1
ADJ.	VR307 (F-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (Bowtie portion)
M.EQ	Vector Scope

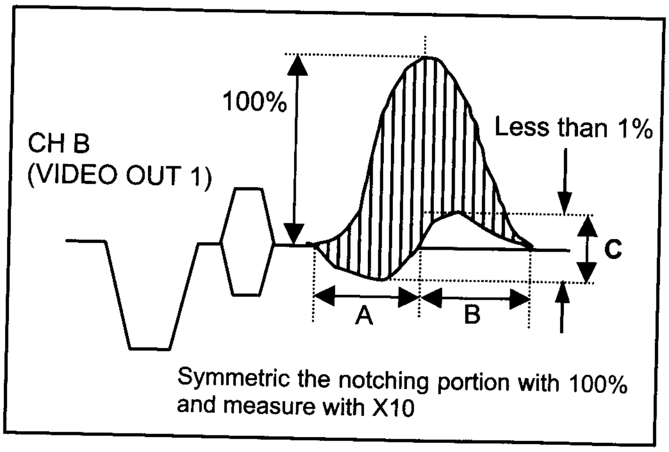
1. Adjust VR307 so that the signal on the vector scope becomes 2 straight lines (X) as shown in figure.



7-13. Composite Y/C Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec (C = less than 1%)
TEST	VIDEO OUT 1
ADJ.	VR803 (I-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (Pulse Bar portion)
M.EQ	Waveform Monitor

1. Adjust VR803 so that the portion A and B are become symmetric left and right and level of portion C less than 1% against level of waveform 100% as shown in figure.
2. When performing this adjustment, the level of waveform may be changed. Therefore, level of waveform is adjusted by Chroma VR on the front panel during this adjustment.
3. After finish this adjustment set the Chroma VR to preset position.
4. After completion of this adjustment, "7-14. Sub-Carrier Phase Adjustment" should be performed.

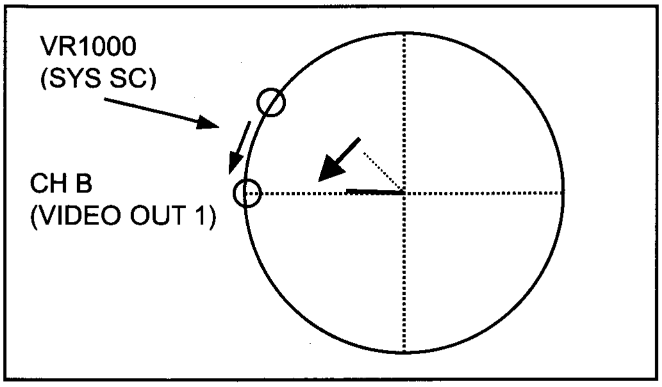


Symmetric the notching portion with 100% and measure with X10

7-14. Sub-Carrier Phase Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±1degree
TEST	VIDEO OUT 1 (CHB), REF IN (CHA)
ADJ.	VR1000 (B-1)
INPUT	REF IN: Composite 100% Colour Bar
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	SCH Meter

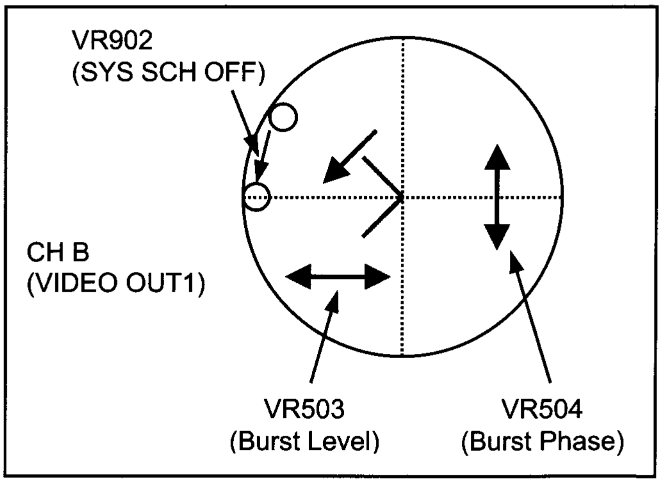
1. Adjust VR1000 so that the SCH of VIDEO OUT(CHB) is same as EXT-REF-IN(CHA), then SCH phase should be become 0±1 degree.



7-15. Burst Adjustment

P.C.B.	V_OUT (F4)
SPEC.	SCH PHASE: 0±3 degree BURST LEVEL: 300mV±3mV
TEST	VIDEO OUT 1 (CHB), REF IN (CHA)
ADJ.	VR902 (B-1), VR503 (H-1), VR504 (H-1)
INPUT	REF IN: Composite 100% Colour Bar
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	SCH Meter

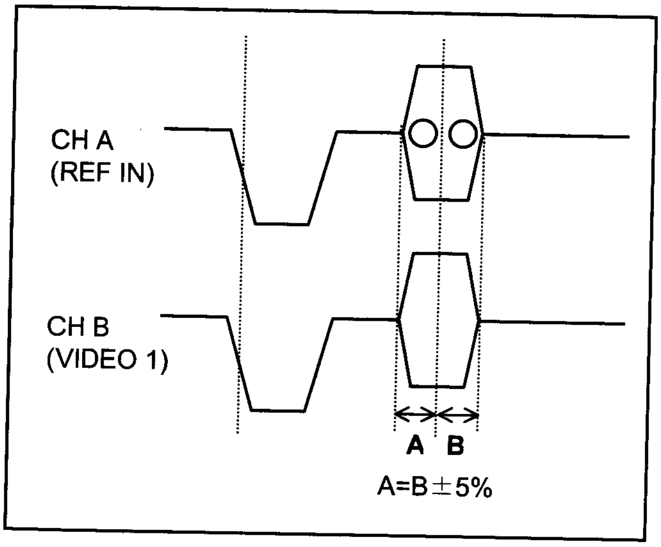
1. Adjust VR902 while changing the channels A and B of the SCH meter alternately so that the SCH is 0±5degree.
2. Adjust VR503 and VR504 while changing the channels A and B of the SCH meter alternately so that the burst level and burst phase are become same between VIDEO OUT 1 (CHB) and REF(CHA).
3. Adjust VR503 so that the burst level is become 300mV±3mV (measure by WFM).



7-16. Burst Position Adjustment

P.C.B.	V_OUT (F4)
SPEC.	A = B±5%
TEST	VIDEO OUT 1(CHB), REF IN(CHA)
ADJ.	VR1102 (B-1)
INPUT	REF IN: Composite 100% Colour Bar
MODE	PLAY
TAPE	VFM3680KM (100% Colour Bar portion)
M.EQ	Waveform Monitor

1. Adjust VR1102 while changing the channels A and B of the waveform monitor alternately so that the center of the burst of the reference and VIDEO OUT 1 are phase synchronized and phase difference between A and B portion in specification.

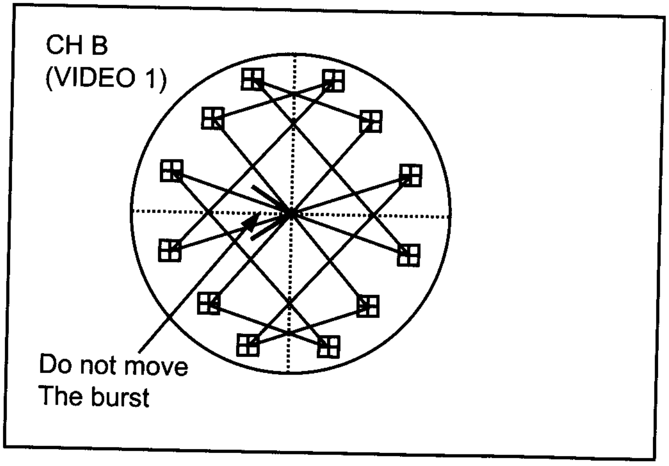


7-17. Confirmation of Vector

P.C.B.	V_OUT (F4)
SPEC.	All vectors are in the Inner Boxes
TEST	VIDEO OUT 1
ADJ.	VR502 (H-1), VR501 (H-1) VR500 (H-1), VR507 (I-1), VC500 (I-3)
INPUT	-------------
MODE	PLAY
TAPE	VFM3580KM (100% Colour Bar portion)
M.EQ	Vector Scope

1. Set the burst position on the Vector Scope at correct position.
2. Confirm that the colour bar's each vector points are in the square mark on the vector scope.
3. If out of specification, adjust the following VR's so that the colour bar's each vector points are in the square mark on the vector scope.(Refer to item 7-11. Vector Adjustment).

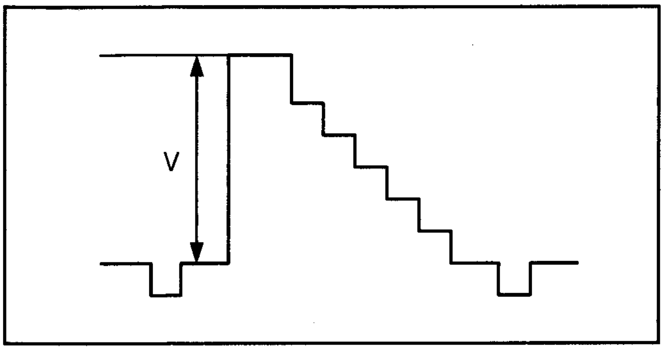
   VR507 : Quad Phase
   VR502 : Hue Phase
   VR501 : Encode PB Level
   VR500 : Encode PR Level
   VC500 : PAL Phase



7-18. Component Y Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	V = 700mV±7mV
TEST	COMPONENT Y OUT
ADJ.	VR301 (G-1)
INPUT	-------------
MODE	PLAY
TAPE	VFM3680KM (100% Color Bar portion)
M.EQ	Waveform Monitor

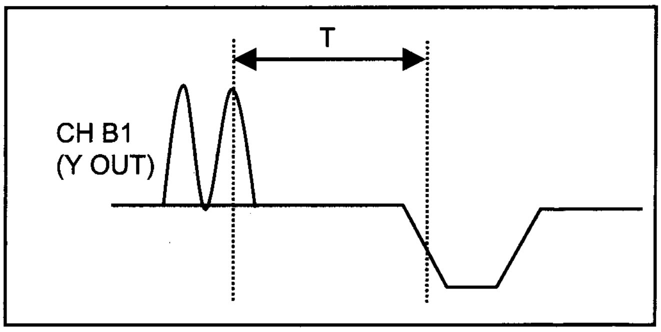
1. Adjust VR301 so that the V level is 700mV±7mV.



7-19. Video Phase Adjustment

P.C.B.	V_OUT (F4)
SPEC.	T = 0.96±0.02usec
TEST	Y OUT
ADJ.	VR1050 (A-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (Area Marker portion)
M.EQ	Waveform Monitor

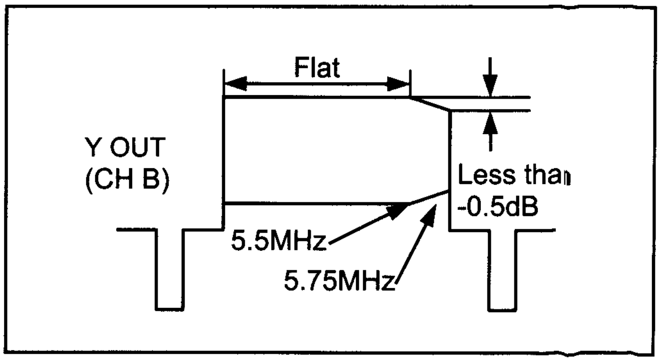
1. Open the Video Adjust menu on Service menu and set item "D01:VIDEO BLANK" to OFF position.
2. Adjust VR1050 so that the timing T is within specification.
3. After finish this adjustment, set to ON position of item "D01:VIDEO BLANK".



7-20. Component Y Frequency Response Adjustment

P.C.B.	V_OUT (F4)
SPEC.	5.5MHz = Less than –0.5dB
TEST	COMPONENT Y OUT
ADJ.	VR304 (F-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (H Sweep portion)
M.EQ	Waveform Monitor

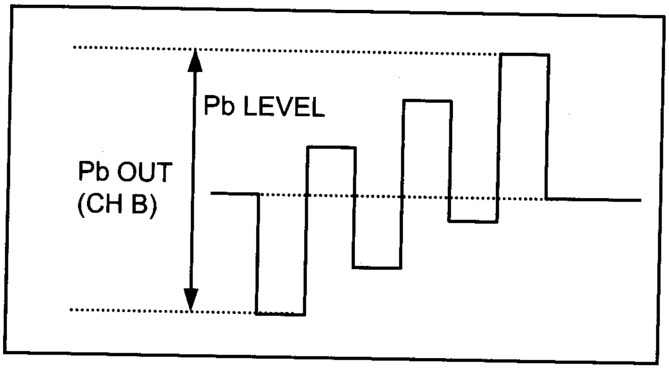
1. Adjust VR304 so that the frequency response becomes flat.



7-21. Component Pb Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	700mV±7mV
TEST	COMPONENT PB OUT
ADJ.	VR306 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (100% Color Bar portion)
M.EQ	Waveform Monitor

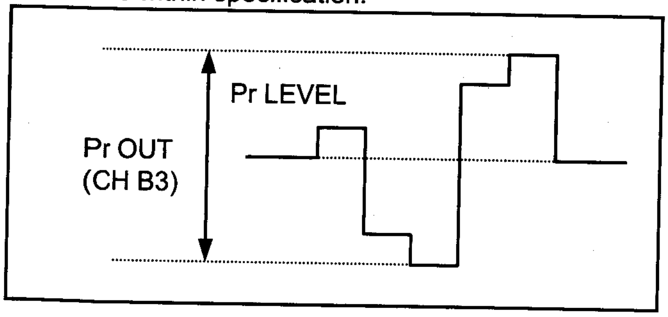
1. Adjust VR306 so that the Pb level of component out is within specification.



7-22. Component Pr Level Adjustment

P.C.B.	V_OUT (F4)
SPEC.	700mV±7mV
TEST	COMPONENT Pr OUT
ADJ.	VR305 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (100% Color Bar portion)
M.EQ	Waveform Monitor

1. Adjust VR305 so that the Pr level of component out is within specification.

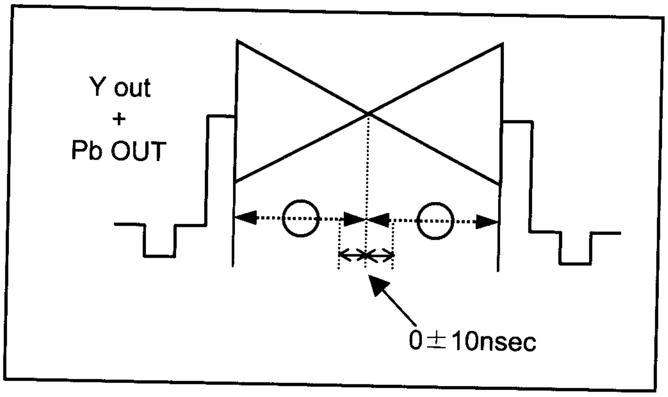


7-23. Component Y/Pb Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec
TEST	COMPONENT Y OUT, PB OUT
ADJ.	VR303 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (Bowtie portion)
M.EQ	Waveform Monitor

1. Set the waveform monitor in the YC timing measuring mode (CH B1 + CH B2).
2. Adjust VR303 so that the cross point of the envelope is at the center.

Note: Incase of WFM monitor does not have Y-Pb timing adjustment mode, if the oscilloscope have "ADD" and "INVERT" switch, please use those switch for make below waveform.

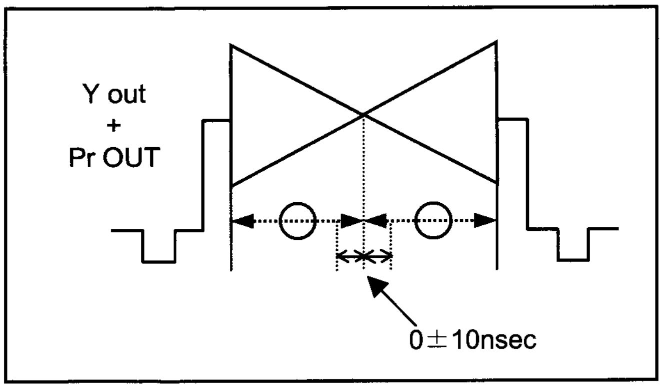


7-24. Component Y/Pr Timing Adjustment

P.C.B.	V_OUT (F4)
SPEC.	0±10nsec
TEST	COMPONENT Y OUT, Pr OUT
ADJ.	VR302 (E-1)
INPUT	------------
MODE	PLAY
TAPE	VFM3680KM (Bowtie portion)
M.EQ	Waveform Monitor

1. Set the waveform monitor in the YC timing measuring mode (CH B1 + CH B3).
2. Adjust VR302 so that the cross point of the envelope is at the center.

Note: Incase of WFM monitor does not have Y-Pb timing adjustment mode, if the oscilloscope have “ADD” and “INVERT” switch, please use those switch for make below waveform.



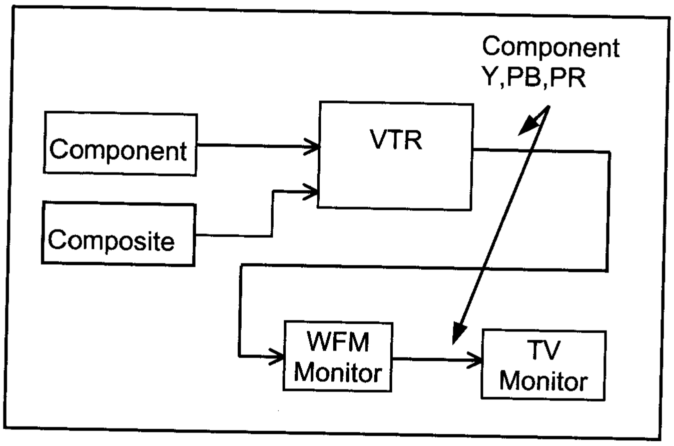
8. V IN P. C. Board
[AJ-D450 only: For NTSC]

8-1. Preparation for Video In Adjustment

1. Connect the equipment as shown in the figure.
2. V IN P.C.Board adjustment should be performed after the V OUT P.C.Board adjustment.
3. Set the menu and SW as follows.

SET UP MENU 613: V IN SETUP → THOU
614: V OUT SETUP → THOU
600: PB PR IN LV → MⅡ

- SW400→ MⅡ (V OUT P.C.Board.)


Component
Y,PB,PR
Component
Composite
VTR
WFM
Monitor
TV
Monitor

8-2. 13.5MHz VCO Adjustment

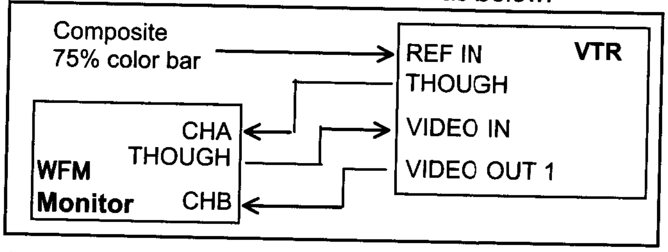
P.C.B.	V_IN (F6)
SPEC.	0V± 0.1V
TEST	TP553(E-2)
ADJ.	VL551(F-2), VR552(F-2)
INPUT	Component 100% Color Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

1. Set VR552 to center position.
2. Adjust VL551 so that the DC Voltage is 0V± 0.1V.
 ＊ First, turn VL551 to CCW.

8-3. Component Y Timing Adjustment

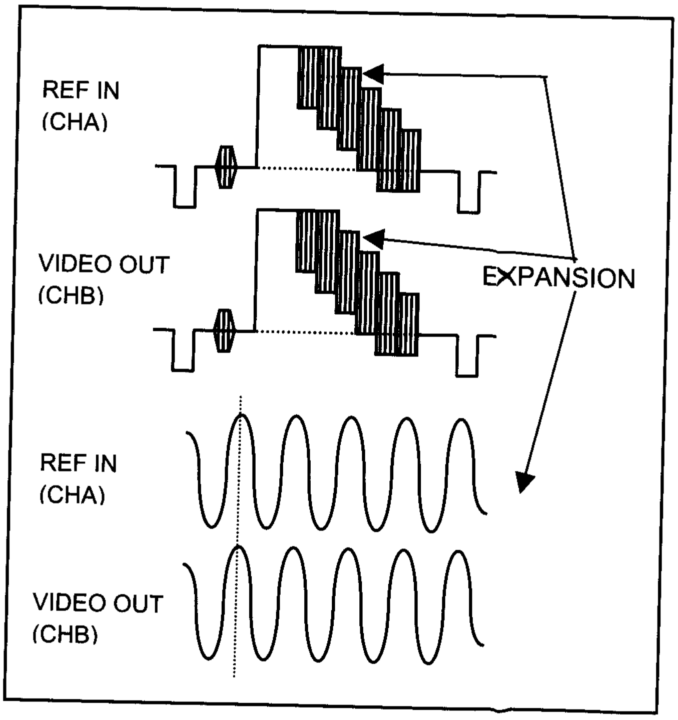
P.C.B.	V_IN (F6)
SPEC.	Phase synchronized between REF IN and VIDEO OUT 1.
TEST	REF IN, VIDEO OUT 1
ADJ.	VR551(E-2)
INPUT	Composite 100% Color Bar
MODE	EE
TAPE	----------
M.EQ	WFM Monitor

1. Connect the cables as indicated as below.


Composite
75% color bar
REF IN
VTR
THOUGH
VIDEO IN
VIDEO OUT 1
CHA
THOUGH
CHB
WFM
Monitor

2. Expand the GREEN portion of color bar signal.
3. Adjust VR551 while change the CHA and CHB of WFM monitor so that the phase synchronized between CHA (REF IN) and CHB (VIDEO OUT).

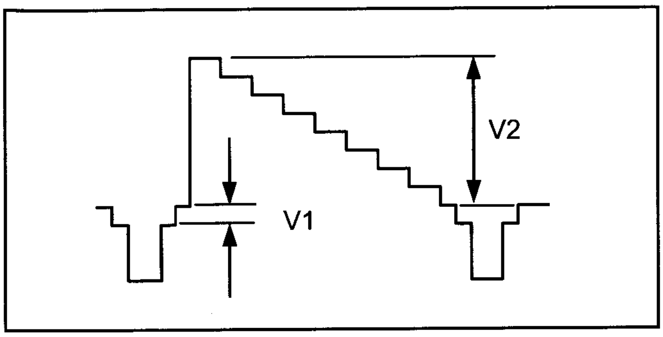
NOTE: This adjustment should be performed after V OUT P.C.Board adjustment.


REF IN
(CHA)
VIDEO OUT
(CHB)
EXPANSION
REF IN
(CHA)
VIDEO OUT
(CHB)

8-4. Component Y Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 0V±7mV, V2 = 700mV±7mV
TEST	Y OUT
ADJ.	VR652(C-2), VR651(C-3)
INPUT	Component 100% Color Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

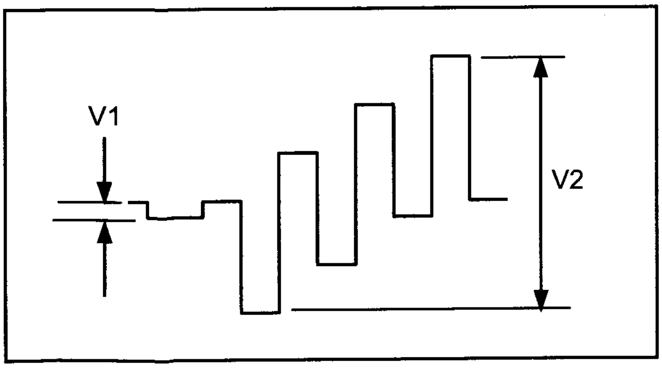
1. Adjust VR652 so that the V1 is 0V±7mV.
2. Adjust VR651 so that the V2 is 700mV±7mV.



8-5. Component PB Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 0V±7mV, V2 = 700mV±7mV
TEST	PB OUT
ADJ.	VR703(A-2), VR702(A-2)
INPUT	Component 100% Color Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

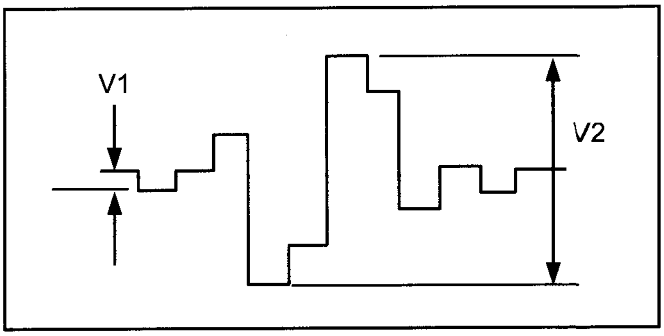
1. Adjust VR703 so that the V1 is 0±7mV.
2. Adjust VR702 so that the V2 is 700m±7mV.



8-6. Component PR Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 0V±7mV, V2 = 700mV±7mV
TEST	PR OUT
ADJ.	VR753(A-1), VR752(B-1)
INPUT	Component 100% Color Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

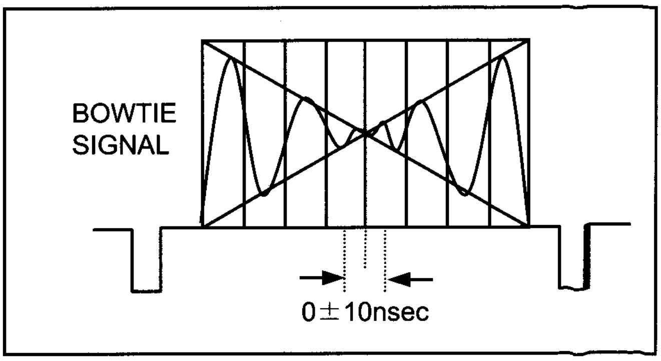
1. Adjust VR753 so that the V1 is 0V±7mV.
2. Adjust VR752 so that the V2 is 700mV±7mV.



8-7. Component Y/C Timing Adjustment

P.C.B.	V_IN (F6)
SPEC.	0±10nsec
TEST	Y, PB, PR OUT
ADJ.	VR701(B-2), VR751(B-1)
INPUT	Component IN : BOWTIE
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR701(PB) so that the minimum level of the Y/PB timing signal is 0±10nsec against the center scale.
   Adjust VR751(PR) so that the minimum level of the Y/PB timing signal is 0±10nsec against the center scale.

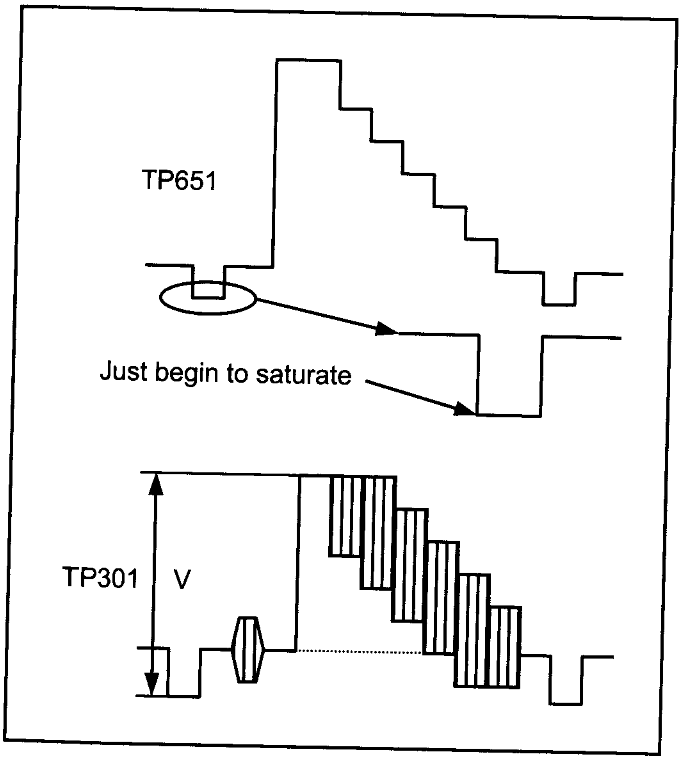


8-8. Composite Input Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 1.6V±0.02V
TEST	TP651(C-3), TP301(I-3)
ADJ.	VR301(I-2), VR251(I-3)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

1. Observe TP651 and adjust VR301 at the point where the sync tip just begin to saturate.
2. Adjust VR251 so that the voltage at TP301 is 1.6V ±0.02V.

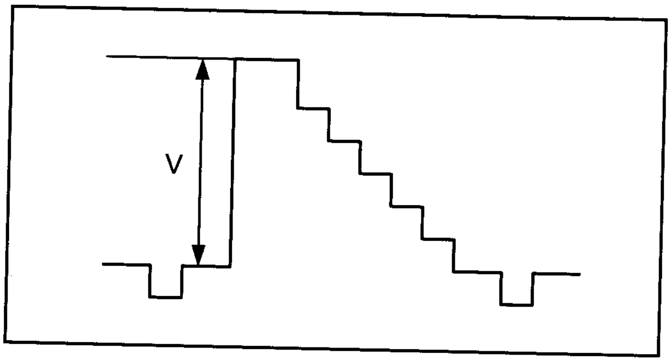
   NOTE: Oscilloscope trigger should be connect to Connector P2-16a



8-9. Composite Y Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	Y OUT
ADJ.	VR352(I-1)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR352 so that the V is 700mV±7mV.

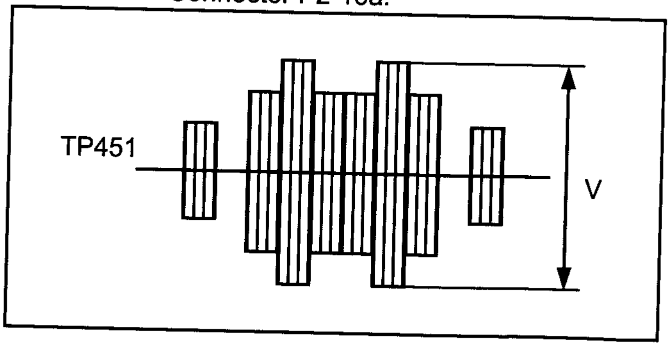


8-10.Composite Color Level Adj.

P.C.B.	V_IN (F6)
SPEC.	V = 360mV±20mV
TEST	TP451(H-1)
ADJ.	VR351(I-1)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR351 so that the V is 360mV±20mV.

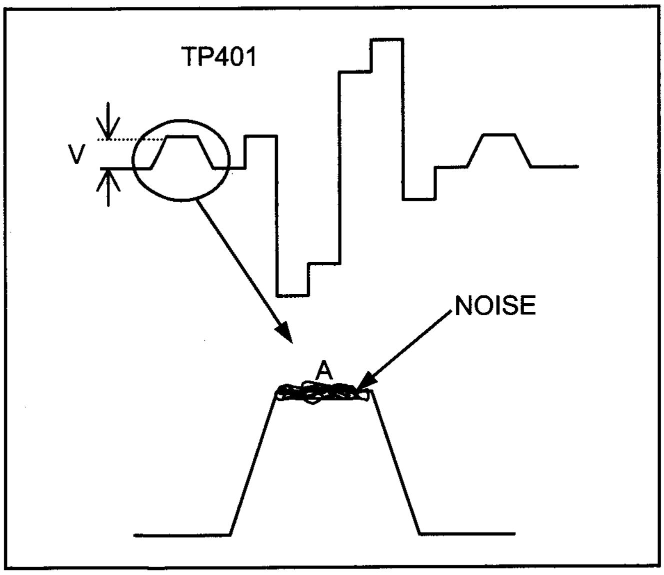
   NOTE: Oscilloscope trigger should be connect to Connector P2-16a.



8-11. Composite Color Demodulation Adjustment

P.C.B.	V_IN (F6)
SPEC.	See figure
TEST	TP401(F-2)
ADJ.	VR408(H-2), VR409(G-2)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

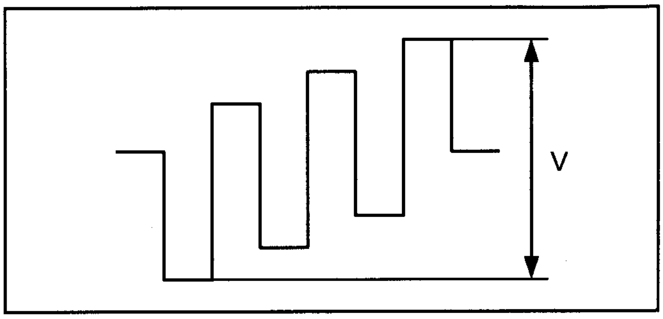
1. Turn VR409 to fully counter-clockwise.
2. Adjust VR408 so that the noise portion is positioned on the top of A portion as shown in figure.
3. Adjust VR409 so that the level V is become 0Vp-p.



8-12. Composite PB Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 486mV±7mV
TEST	PB OUT
ADJ.	VR460(G-1)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

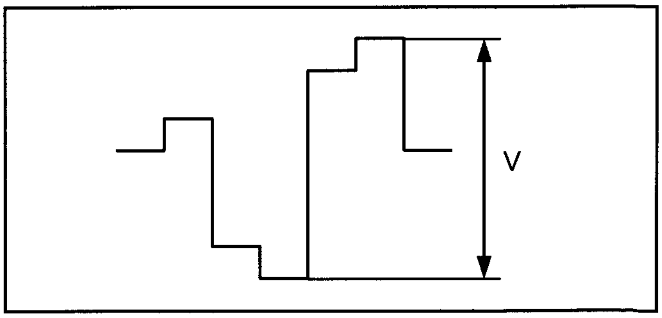
1. Adjust VR460 so that the V is 486mV±7mV



8-13. Composite PR Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 486mV±7mV
TEST	PR OUT
ADJ.	VR464(F-1)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR464 so that the V is 486mV±7mV

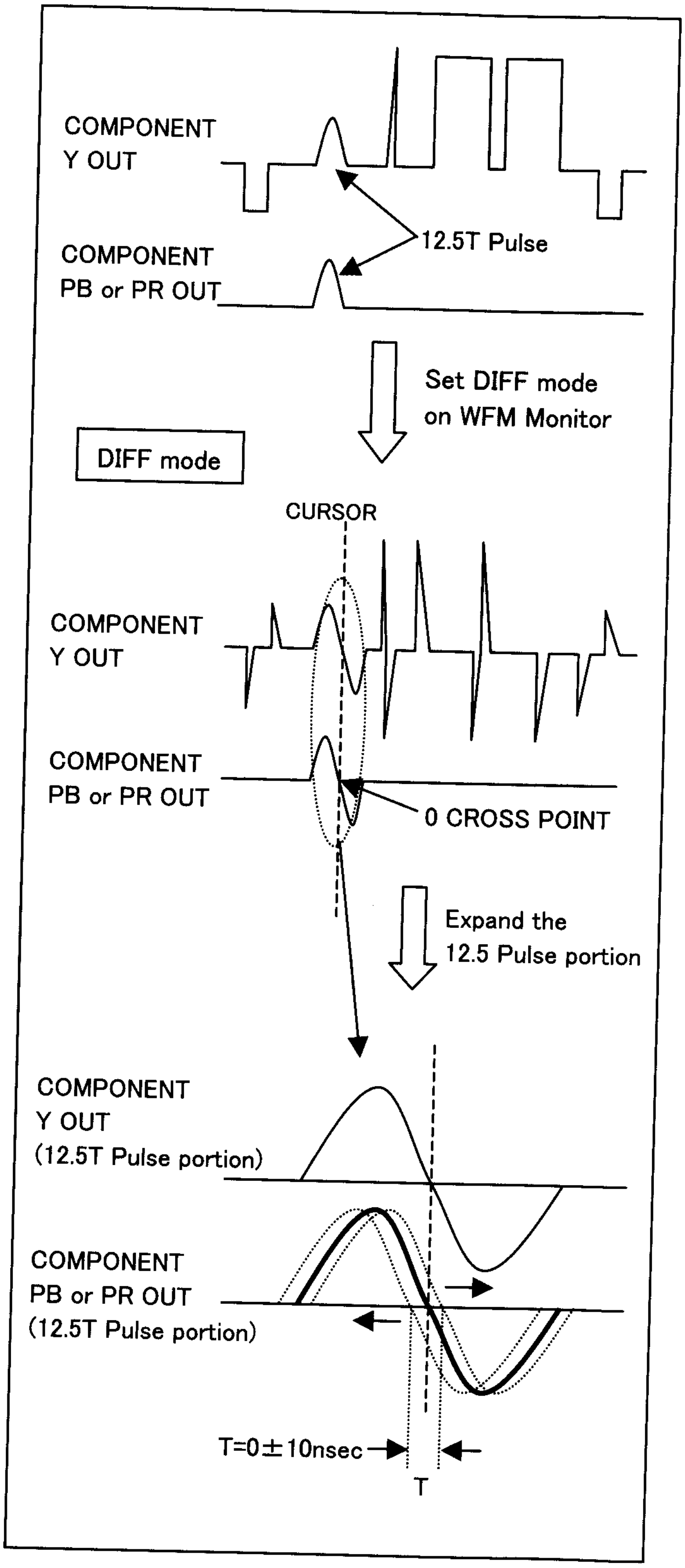


8-14. Composite YC Timing Adjustment

P.C.B.	V_IN (F6)
SPEC.	T = 0±10nsec
TEST	Y PR PB OUT
ADJ.	VR459(G-1), VR463(G-1)
INPUT	Composite IN : 12.5T Pulse & Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Confirm that the 12.5T Pulse & Bar signal appeared correctly on the scope with Component Y OUT as shown in figure.
2. Confirm that the 12.5T Pulse portion appeared correctly on the scope with Component PB and PR OUT as shown in figure.
3. Set WFM monitor to DIFF mode. In case of set the DIFF mode, waveform of Y, PB and PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated as figure) and set the cursor to 0 cross point as shown in figure.
5. Sine-wave is appeared on the scope by expansion as shown in figure.
6. Adjust VR459(PB) and VR463(PR) so that the phase synchronized between Y and PB, PR signals.

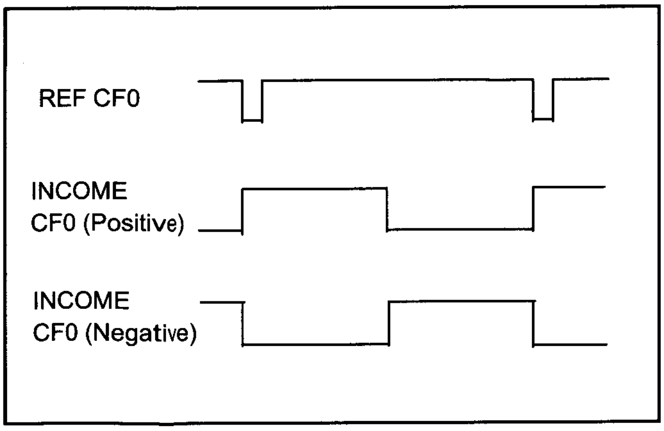
NOTE: Please use type of WFM Monitor attached DIFF mode


COMPONENT Y OUT
COMPONENT PB or PR OUT
12.5T Pulse
Set DIFF mode on WFM Monitor
DIFF mode
CURSOR
COMPONENT Y OUT
COMPONENT PB or PR OUT
0 CROSS POINT
Expand the 12.5 Pulse portion
COMPONENT Y OUT (12.5T Pulse portion)
COMPONENT PB or PR OUT (12.5T Pulse portion)
T=0±10nsec
T

8-15. Composite SCH Detection Adjustment

P.C.B.	V_IN (F6)
SPEC.	See below
TEST	CF OUT (TEST SIG GEN) Connector P2-8C (INCOME CF0 pulse)
ADJ.	VR407(H-2)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

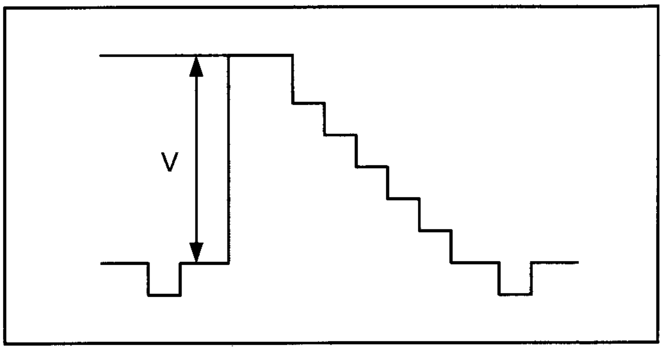
1. Set VR407 fully CCW.
2. If Income CF0 pulse does not negative pulse, slowly turn VR407 CW and set the position where the Income CF0 pulse just changes from the positive to negative phase as shown in below figure.
3. Set the VR407 so that the phase of Income CF0 pulse just changes from the negative to positive position as shown in below figure. Memorized this adjusted position of VR as position A.
4. Set the VR407 so that the phase of Income CF0 pulse just changes from the positive to negative position as shown in below figure. Memorized this adjusted position of VR as position B.
5. Set the VR407 so that the center between position A and B.



8-16. YC Y Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	Y OUT
ADJ.	VR354(H-1)
INPUT	S-VIDEO: 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

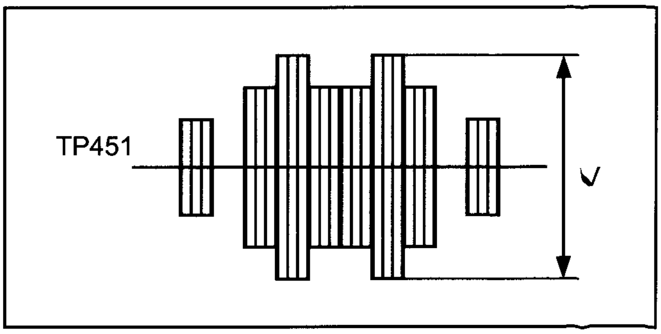
1. Adjust VR354 so that the V is 700mV±7mV.



8-17.YC Color Level Adj.

P.C.B.	V_IN (F6)
SPEC.	V = 360mV±20mV
TEST	TP451(H-1)
ADJ.	VR353(H-2)
INPUT	S-VIDEO: 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

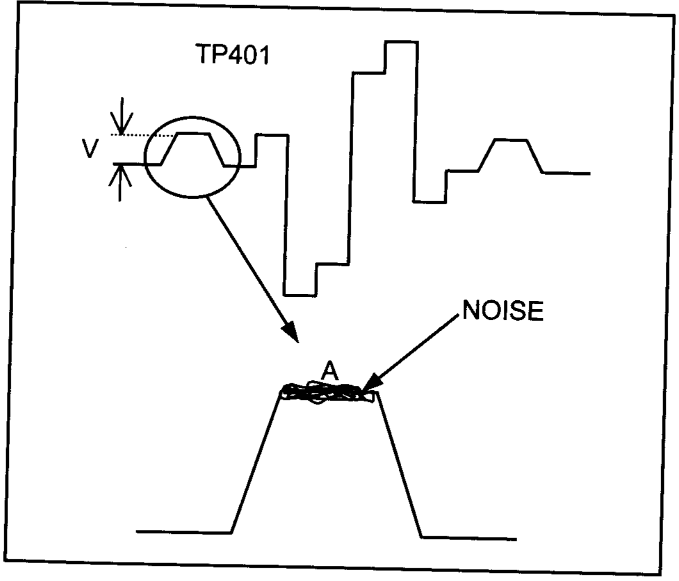
1. Adjust VR353 so that the V is 360mV±20mV.
   NOTE: Oscilloscope trigger should be connect to Connector P2-16a.



8-18. YC Color Demodulation Adjustment

P.C.B.	V_IN (F6)
SPEC.	See figure
TEST	TP401(F-2)
ADJ.	VR409(G-2), VR410(G-2)
INPUT	S-VIDEO: 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

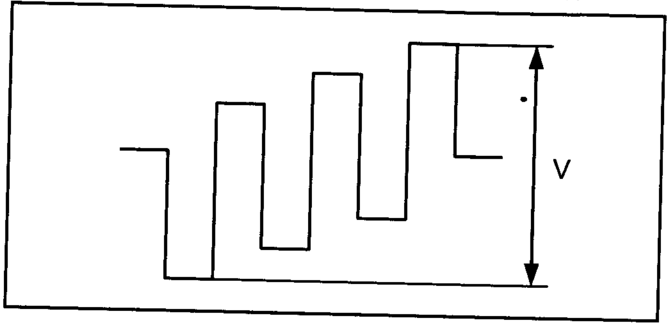
1. Turn VR409 to fully counter-clockwise.
2. Adjust VR410 so that the noise portion is positioned on the top of A portion as shown in figure.
3. Adjust VR409 so that the level V is become 0Vp-p.



8-19. YC PB Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 486mV±7mV
TEST	PB OUT
ADJ.	VR462(F-1)
INPUT	S-VIDEO: 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

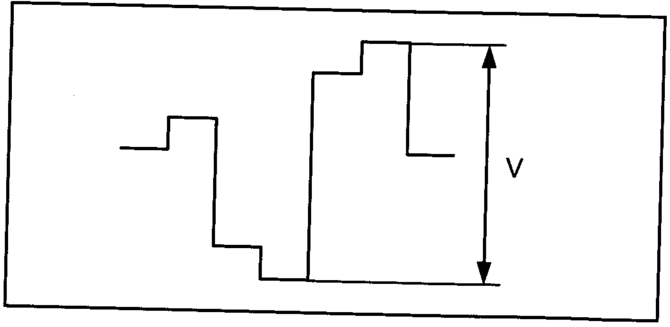
1. Adjust VR462 so that the V is 486mV±7mV



8-20. YC PR Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 486mV±7mV
TEST	PR OUT
ADJ.	VR466(E-1)
INPUT	S-VIDEO: 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR466 so that the V is 486mV±7mV

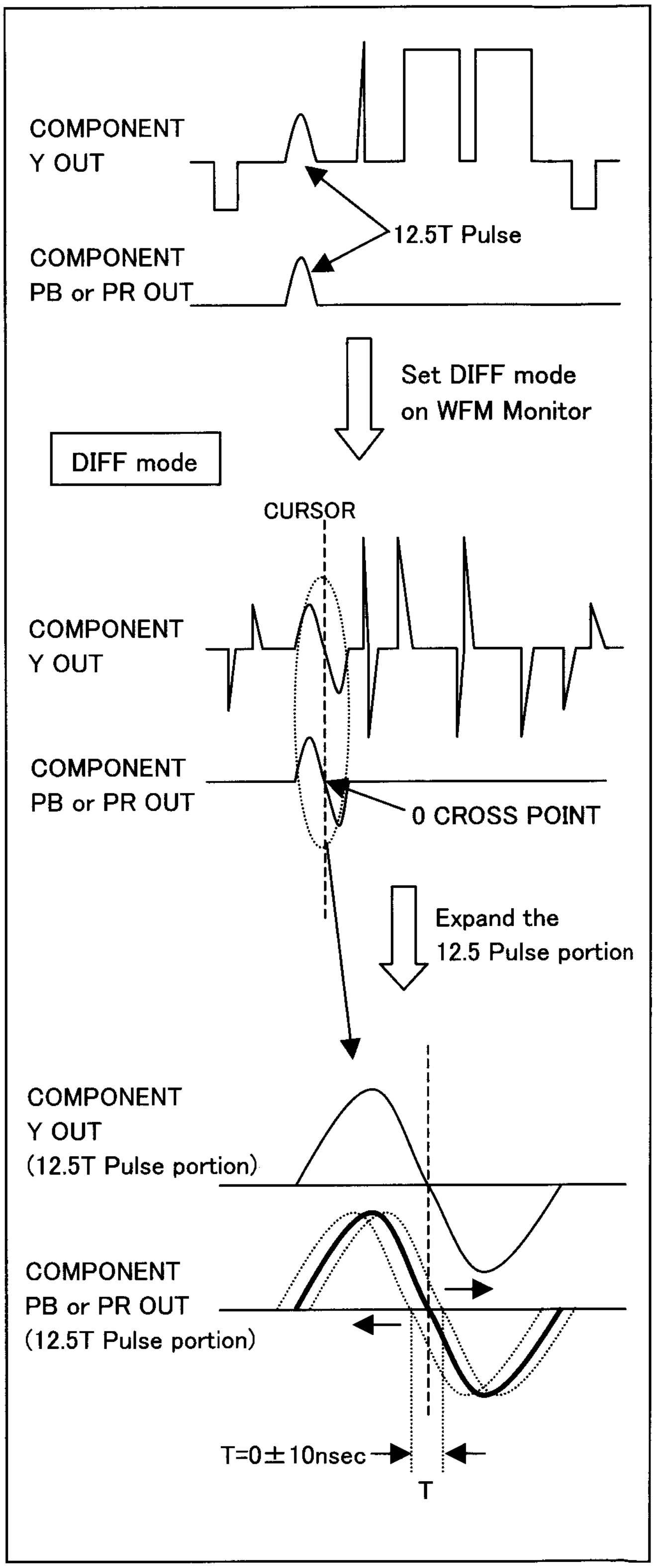


8-21. YC Timing Adjustment (YC)

P.C.B.	V_IN (F6)
SPEC.	T = 0±10nsec
TEST	Y PR PB OUT
ADJ.	VR461(F-1), VR465(F-1)
INPUT	S-VIDEO IN : 12.5T Pulse & Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

7. Confirm that the 12.5T Pulse & Bar signal appeared correctly on the scope with Component Y OUT as shown in figure.
8. Confirm that the 12.5T Pulse portion appeared correctly on the scope with Component PB and PR OUT as shown in figure.
9. Set WFM monitor to DIFF mode. In case of set the DIFF mode, waveform of Y, PB and PR signals are integrated as shown in figure.
10. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated as figure) and set the cursor to 0 cross point as shown in figure.
11. Sine-wave is appeared on the scope by expansion as shown in figure.
12. Adjust VR461(PB) and VR465(PR) so that the phase synchronized between Y and PB, PR signals.

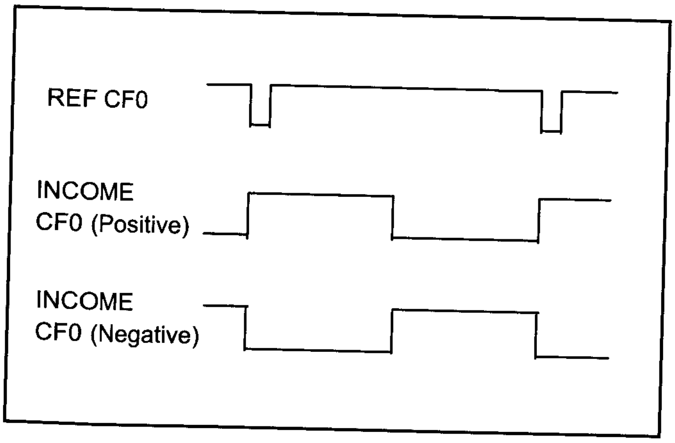
NOTE: Please use type of WFM Monitor attached DIFF mode


COMPONENT
Y OUT
12.5T Pulse
COMPONENT
PB or PR OUT
Set DIFF mode
on WFM Monitor
DIFF mode
CURSOR
COMPONENT
Y OUT
COMPONENT
PB or PR OUT
0 CROSS POINT
Expand the
12.5 Pulse portion
COMPONENT
Y OUT
(12.5T Pulse portion)
COMPONENT
PB or PR OUT
(12.5T Pulse portion)
T=0±10nsec
T

8-22. YC SCH Detection Adjustment

P.C.B.	V_IN (F6)
SPEC.	See below
TEST	CF OUT (TEST SIG GEN) Connector P2-8C (INCOME CF0 pulse)
ADJ.	VR407(H-2)
INPUT	S-VIDEO: 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

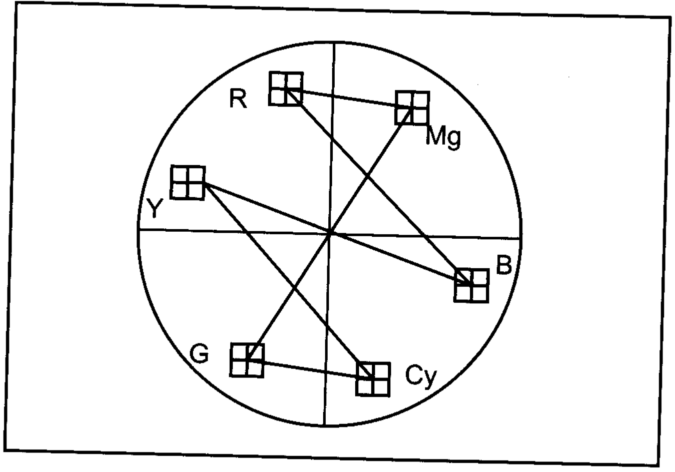
1. Set VR407 fully CCW.
2. If Income CF0 pulse does not negative pulse, slowly turn VR407 CW and set the position where the Income CF0 pulse just changes from the positive to negative phase as shown in below figure.
3. Set the VR407 so that the phase of Income CF0 pulse just changes from the negative to positive position as shown in below figure. Memorized this adjusted position of VR as position A.
4. Set the VR407 so that the phase of Income CF0 pulse just changes from the positive to negative position as shown in below figure. Memorized this adjusted position of VR as position B.
5. Set the VR407 so that the center between position A and B.



8-23. Composite Vector Adjustment

P.C.B.	V_IN (F6)
SPEC.	All vector dots are In Inner Boxes
TEST	COMPOSITE OUT
ADJ.	VR409(G-2)
INPUT	COMPOSITE 75% Color Bar (Set up 7.5%)
MODE	EE
TAPE	----------
M.EQ	Vector Scope

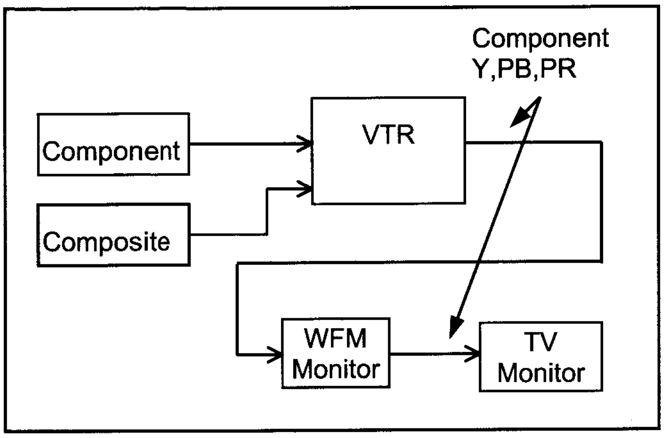
1. Adjust VR409 so that the all vector dots are in the inner boxes.



8. V IN P. C. Board
[AJ-D450 only: For PAL]

8-1. Preparation for Video In Adjustment

1. Connect the equipment as shown in the figure.
2. V IN P.C.Board adjustment should be performed after the V OUT P.C.Board adjustment.


Component
Y,PB,PR
Component
Composite
VTR
WFM Monitor
TV Monitor

8-2. 13.5MHz VCO Adjustment

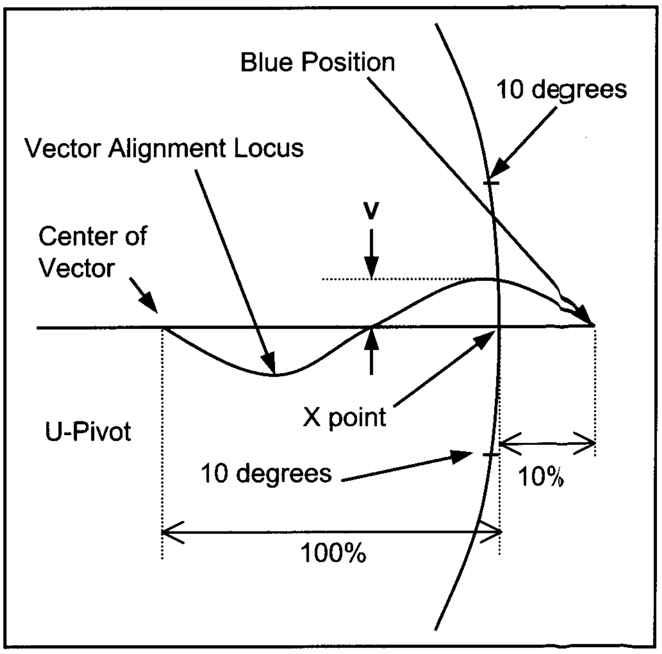
P.C.B.	V_IN (F6)
SPEC.	0V± 0.1V
TEST	TP553(E-2)
ADJ.	VL551(F-3), VR552(F-2)
INPUT	Component 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

1. Set VR552 to center position.
2. Adjust VL551 so that the DC Voltage is 0V± 0.1V.
   ∗ First, turn VL551 to CCW.

8-3. Component Y Timing Adjustment

P.C.B.	V_IN (F6)
SPEC.	V =±0.5 degree
TEST	VIDEO OUT 1
ADJ.	VR551(E-2)
INPUT	Composite 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Vector Scope

1. Connect the vector scope to composite out terminal.
2. Expand the Vector Alignment Locus, where the blue point position on vector scale (X point as shown in below figure) and set the vector Alignment Locus on the u-pivot by adjust gain and phase VR on the vector scope.
3. Expand the Vector Alignment Locus 10% as compare with 100% as shown in below figure.
4. Adjust VR551 so that the vector adjustment locus is become straight, it should be in specification.


Blue Position
10 degrees
Vector Alignment Locus
V
Center of Vector
U-Pivot
X point
10 degrees
10%
100%

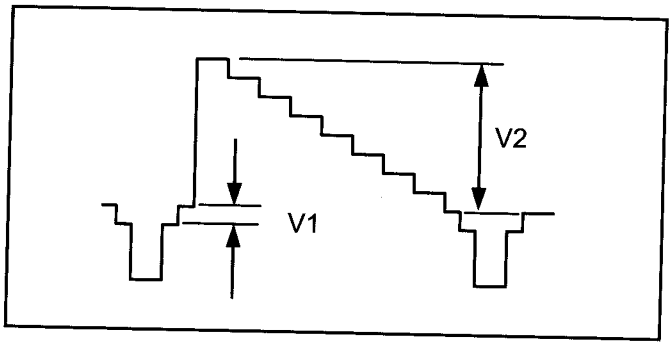
NOTE: In case of use VM700A

1. Set the blue point position to tip of U-Pivot.
2. Set the Average ON of VM700A
3. Adjust VR551 so that the vector adjustment locus is match to X point, and it should be in specification.

8-4. Component Y Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 0V±7mV, V2 = 700mV±7mV
TEST	Y OUT
ADJ.	VR652(C-2), VR651(C-3)
INPUT	Component 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

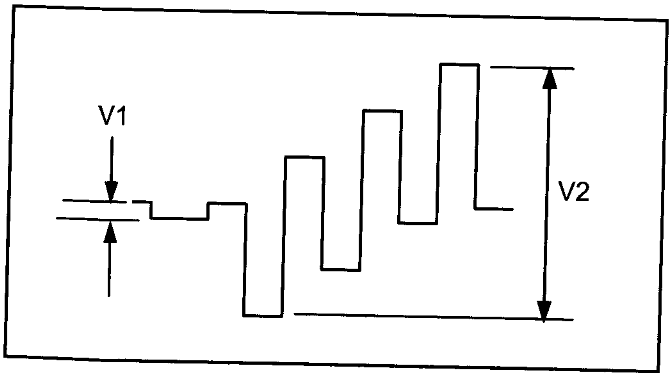
1. Adjust VR652 so that the V1 is 0V±7mV.
2. Adjust VR651 so that the V2 is 700mV±7mV.



8-5. Component PB Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 0V±7mV, V2 = 700mV±7mV
TEST	PB OUT
ADJ.	VR703(A-2), VR702(A-2)
INPUT	Component 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

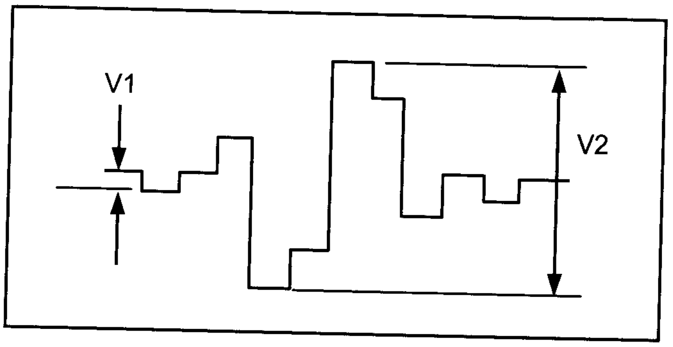
1. Adjust VR703 so that the V1 is 0±7mV.
2. Adjust VR702 so that the V2 is 700m±7mV.



8-6. Component PR Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 0V±7mV, V2 = 700mV±7mV
TEST	PR OUT
ADJ.	VR753(A-1), VR752(B-1)
INPUT	Component 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR753 so that the V1 is 0V±7mV.
2. Adjust VR752 so that the V2 is 700mV±7mV.

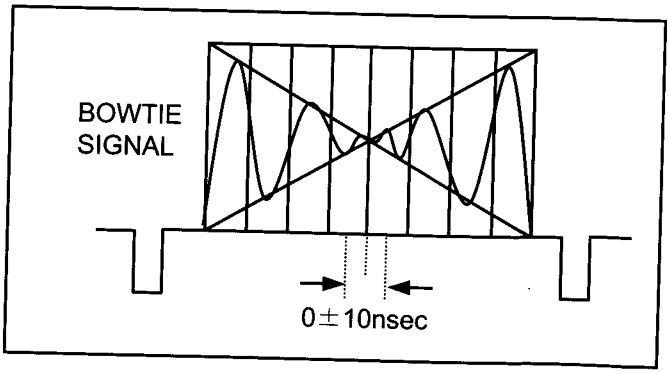


8-7. Component Y/C Timing Adjustment

P.C.B.	V_IN (F6)
SPEC.	0±10nsec
TEST	Y, PB, PR OUT
ADJ.	VR701(B-2), VR751(B-1)
INPUT	Component IN : BOWTIE
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR701(PB) so that the minimum level of the Y/PB timing signal is 0±10nsec against the center scale.

   Adjust VR751(PR) so that the minimum level of the Y/PB timing signal is 0±10nsec against the center scale.

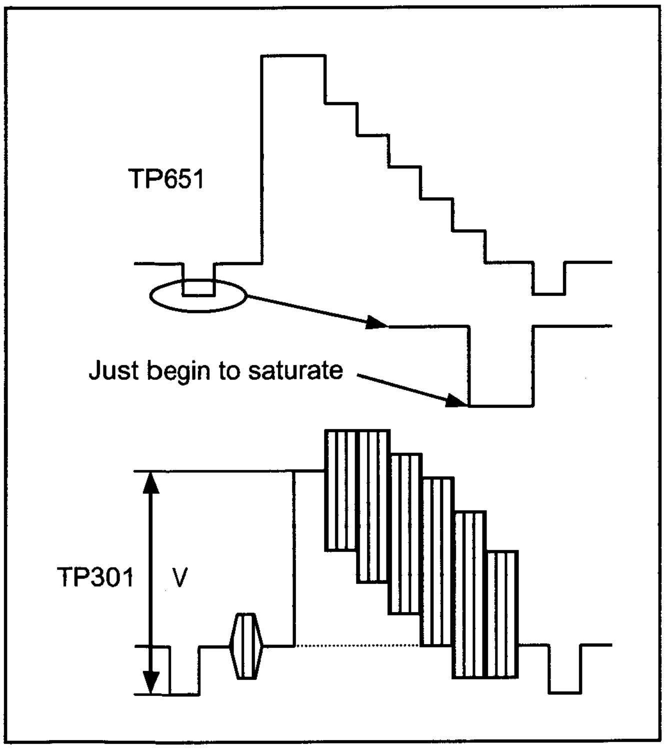


8-8. Composite Input Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V1 = 1.6V±0.02V
TEST	TP651(C-3), TP301(I-3)
ADJ.	VR301(I-2), VR251(I-3)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

1. Observe TP651 and adjust VR301 at the point where the sync tip just begin to saturate.
2. Adjust VR251 so that the voltage at TP301 is 1.6V ±0.02V.

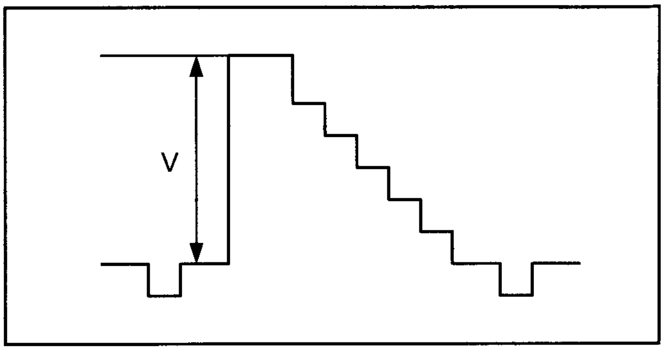
   NOTE: Oscilloscope trigger should be connect to Connector P2-16a



8-9. Composite Y Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	Y OUT
ADJ.	VR352(I-1)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR352 so that the V is 700mV±7mV.

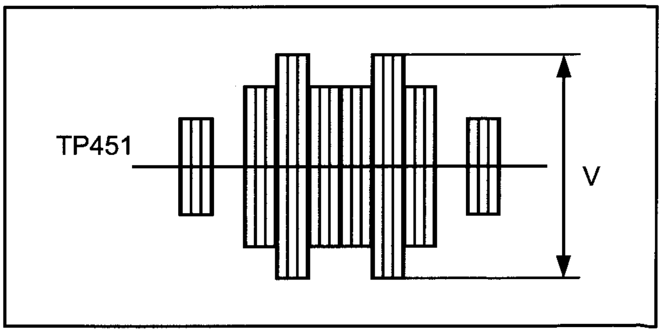


8-10.Composite Colour Level Adj.

P.C.B.	V_IN (F6)
SPEC.	V = 500mV±20mV
TEST	TP451(H-1)
ADJ.	VR351(I-1)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR351 so that the V is 500mV±20mV.

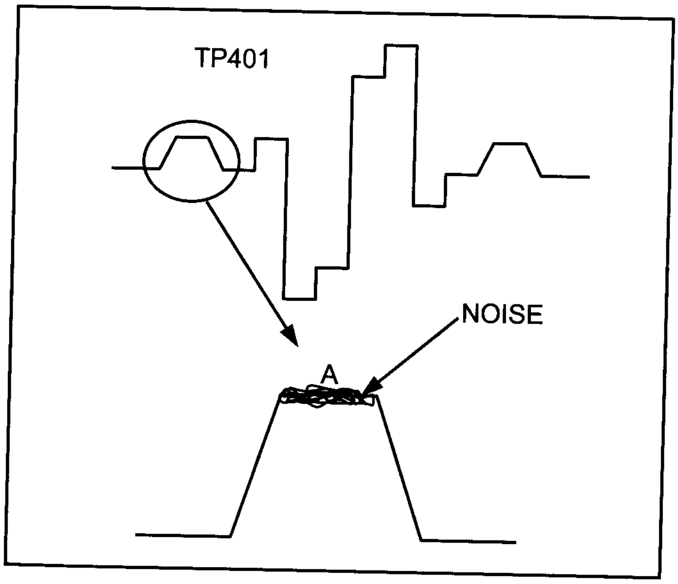
   NOTE: Oscilloscope trigger should be connect to Connector P2-16a.



8-11. Composite Colour Demodulation Adjustment

P.C.B.	V_IN (F6)
SPEC.	See figure
TEST	TP401(F-2)
ADJ.	VR408(H-2), VR409(G-2)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

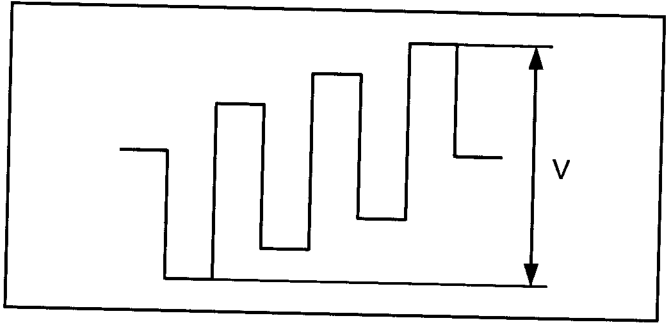
1. Adjust VR409 so that the waveform is shown in figure (no double image).
2. Adjust VR408 so that the noise portion is positioned on the top of A portion as shown in figure.



8-12. Composite PB Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	PB OUT
ADJ.	VR460(G-1)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

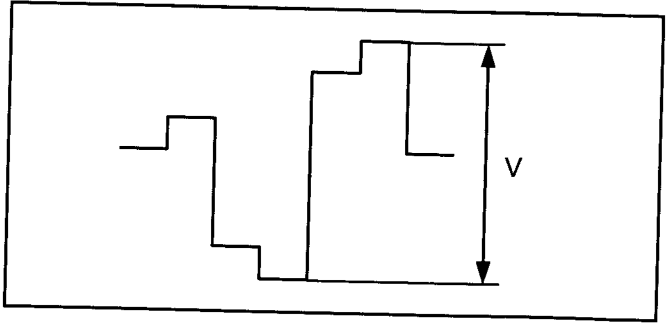
1. Adjust VR460 so that the V is 700mV±7mV



8-13. Composite PR Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	PR OUT
ADJ.	VR464(F-1)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR464 so that the V is 700mV±7mV.

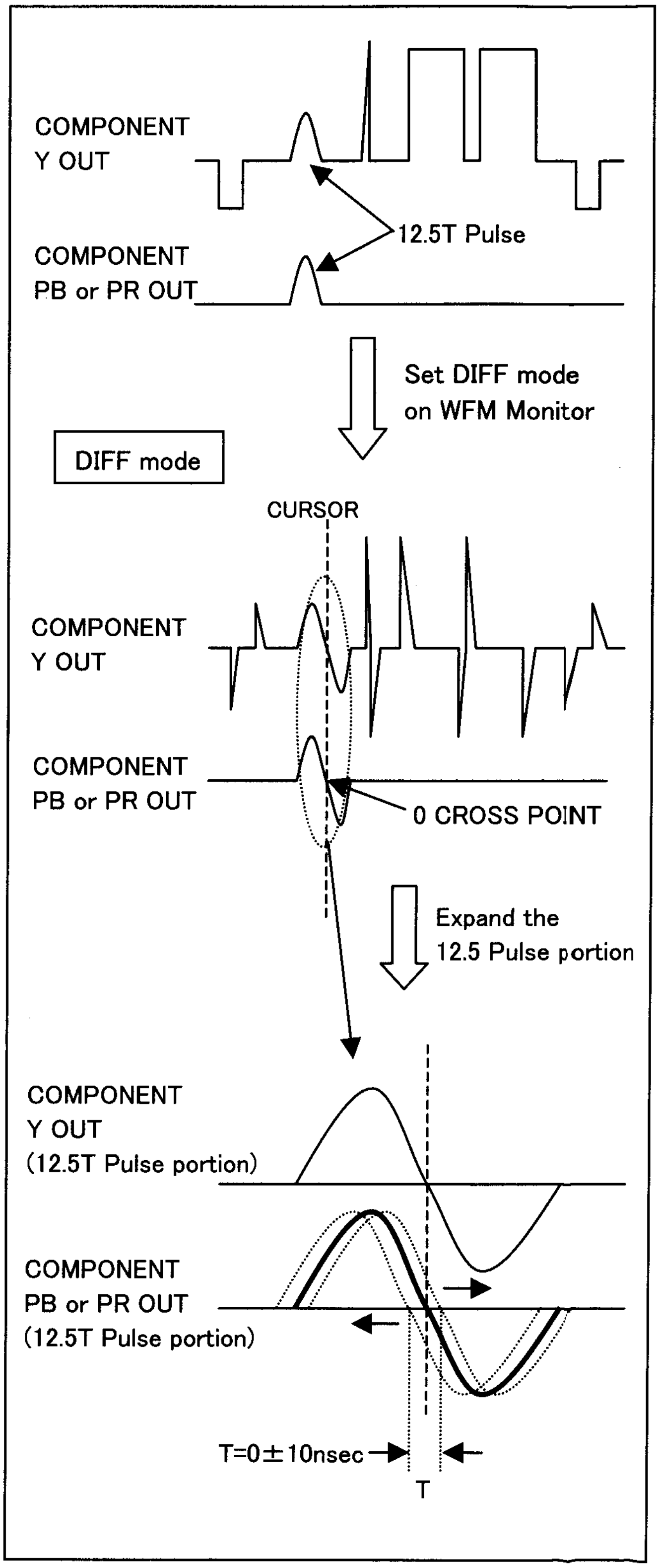


8-14. Composite YC Timing Adjustment

P.C.B.	V_IN (F6)
SPEC.	T = 0±10nsec
TEST	Y PR PB OUT
ADJ.	VR459(G-1), VR463(G-1)
INPUT	Composite IN : 12.5T Pulse & Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Confirm that the 12.5T Pulse & Bar signal appeared correctly on the scope with Component Y OUT as shown in figure.
2. Confirm that the 12.5T Pulse portion appeared correctly on the scope with Component PB and PR OUT as shown in figure.
3. Set WFM monitor to DIFF mode. In case of set the DIFF mode, waveform of Y, PB and PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated as figure) and set the cursor to 0 cross point as shown in figure.
5. Sine-wave is appeared on the scope by expansion as shown in figure.
6. Adjust VR459(PB) and VR463(PR) so that the phase synchronized between Y and PB, PR signals.

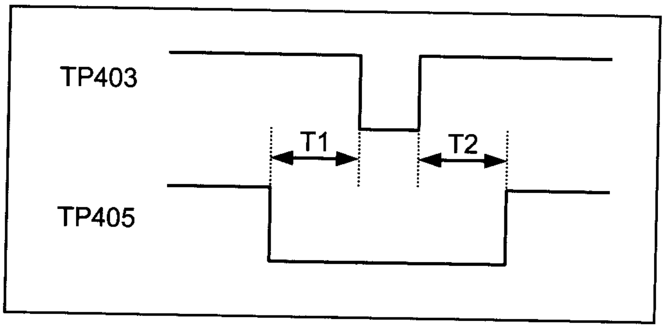
NOTE: Please use type of WFM Monitor attached DIFF mode


COMPONENT
Y OUT
12.5T Pulse
COMPONENT
PB or PR OUT
Set DIFF mode
on WFM Monitor
DIFF mode
CURSOR
COMPONENT
Y OUT
COMPONENT
PB or PR OUT
0 CROSS POINT
Expand the
12.5 Pulse portion
COMPONENT
Y OUT
(12.5T Pulse portion)
COMPONENT
PB or PR OUT
(12.5T Pulse portion)
T=0±10nsec
T

8-15. Composite SCH Detection Adjustment

P.C.B.	V_IN (F6)
SPEC.	T1−T2=±0.5msec
TEST	TP403(G-2), TP405(G-2)
ADJ.	VR407(H-2)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

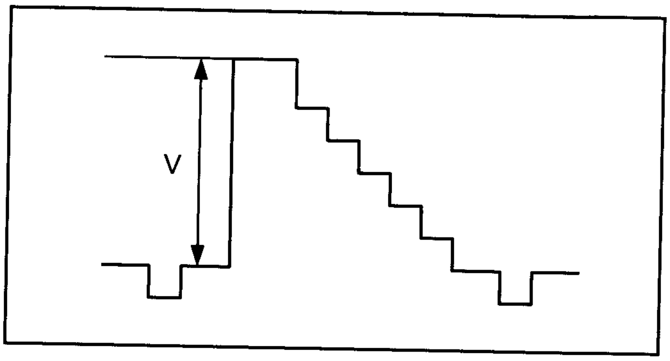
1. Adjust VR407 so that the T1 and T2 in specification.



8-16. YC Y Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	Y OUT
ADJ.	VR354(H-1)
INPUT	S-VIDEO: 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

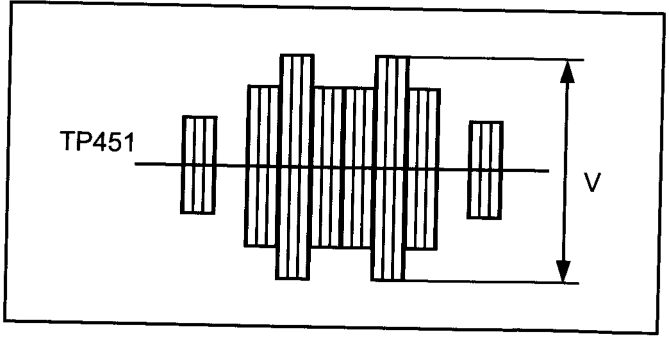
1. Adjust VR354 so that the V is 700mV±7mV.



8-17.YC Colour Level Adj.

P.C.B.	V_IN (F6)
SPEC.	V = 500mV±20mV
TEST	TP451(H-1)
ADJ.	VR353(H-2)
INPUT	S-VIDEO: 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

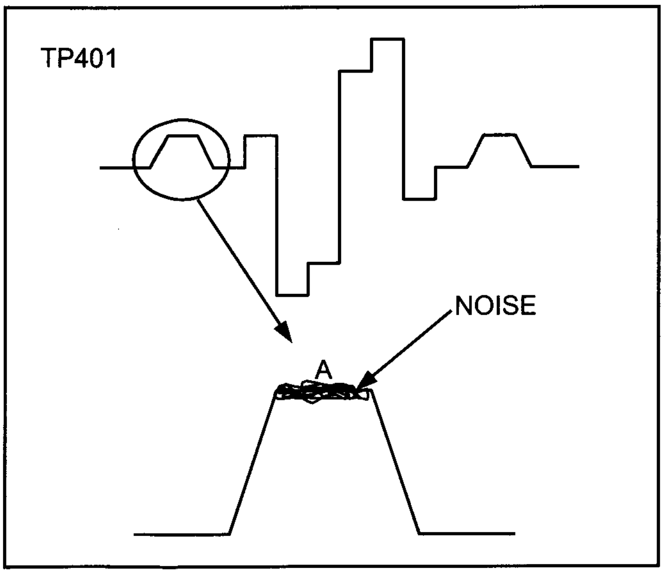
1. Adjust VR353 so that the V is 500mV±20mV.
   NOTE: Oscilloscope trigger should be connect to Connector P2-16a.



8-18. YC Colour Demodulation Adjustment

P.C.B.	V_IN (F6)
SPEC.	See figure
TEST	TP401(F-2)
ADJ.	VR409(G-2), VR410(G-2)
INPUT	S-VIDEO: 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

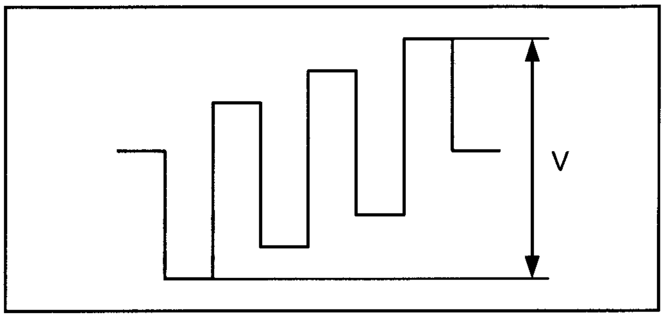
1. Adjust VR409 so that the waveform is shown in figure (no double image).
2. Adjust VR408 so that the noise portion is positioned on the top of A portion as shown in figure.



8-19. YC PB Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	PB OUT
ADJ.	VR462(F-1)
INPUT	S-VIDEO: 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

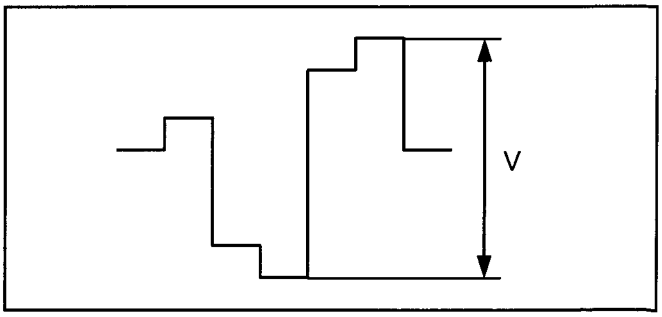
1. Adjust VR462 so that the V is 700mV±7mV



8-20. YC PR Level Adjustment

P.C.B.	V_IN (F6)
SPEC.	V = 700mV±7mV
TEST	PR OUT
ADJ.	VR466(E-1)
INPUT	S-VIDEO: 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

1. Adjust VR466 so that the V is 700mV±7mV.

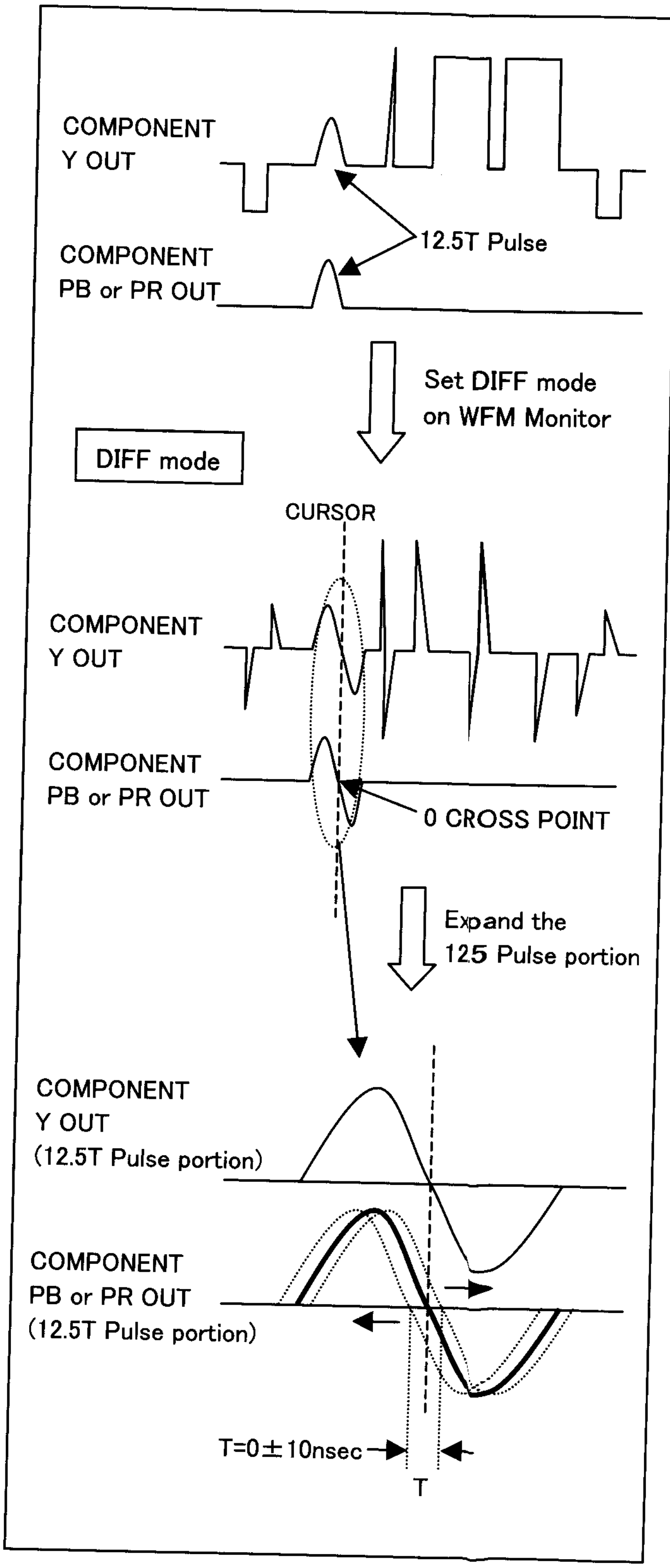


8-21. YC Timing Adjustment (YC)

P.C.B.	V_IN (F6)
SPEC.	T = 0±10nsec
TEST	Y PR PB OUT
ADJ.	VR461(F-1), VR465(F-1)
INPUT	S-VIDEO IN : 12.5T Pulse & Bar
MODE	EE
TAPE	----------
M.EQ	Waveform Monitor

7. Confirm that the 12.5T Pulse & Bar signal appeared correctly on the scope with Component Y OUT as shown in figure.
8. Confirm that the 12.5T Pulse portion appeared correctly on the scope with Component PB and PR OUT as shown in figure.
9. Set WFM monitor to DIFF mode. In case of set the DIFF mode, waveform of Y, PB and PR signals are integrated as shown in figure.
10. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated as figure) and set the cursor to 0 cross point as shown in figure.
11. Sine-wave is appeared on the scope by expansion as shown in figure.
12. Adjust VR461(PB) and VR465(PR) so that the phase synchronized between Y and PB, PR signals.

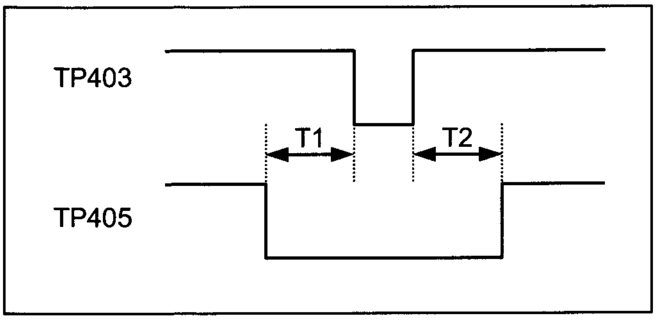
NOTE: Please use type of WFM Monitor attached DIFF mode


COMPONENT
Y OUT
COMPONENT
PB or PR OUT
12.5T Pulse
Set DIFF mode
on WFM Monitor
DIFF mode
CURSOR
COMPONENT
Y OUT
COMPONENT
PB or PR OUT
0 CROSS POINT
Expand the
125 Pulse portion
COMPONENT
Y OUT
(12.5T Pulse portion)
COMPONENT
PB or PR OUT
(12.5T Pulse portion)
T=0±10nsec
T

8-22. YC SCH Detection Adjustment

P.C.B.	V_IN (F6)
SPEC.	See below
TEST	TP403(G-2), TP405(G-2)
ADJ.	VR407(H-2)
INPUT	S-VIDEO: 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Oscilloscope

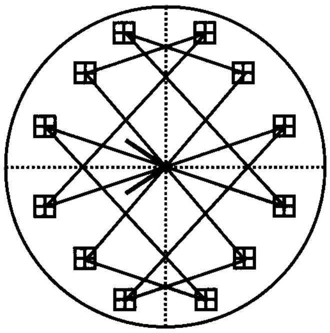
1. Adjust VR407 so that the T1 and T2 in specification.



8-23. Composite Vector Adjustment

P.C.B.	V_IN (F6)
SPEC.	All vector dots are In Inner Boxes
TEST	VIDEO OUT 1
ADJ.	VR409(G-2)
INPUT	COMPOSITE 100% Colour Bar
MODE	EE
TAPE	----------
M.EQ	Vector Scope

1. Adjust VR409 so that the all vector dots are in the inner boxes.



9. ADDA CUE (F8)

9-1. Initial Setting of PCM Adjustment

< Switch Setting >

1. Set the switch as shown below.

Ref No.	Name	Setting Position
SW4381	NR SELECT	NORMAL

< Setting of Front switches >

NAME	Setting Position
HEAD PHONES	MIX
HR VR	CENTER
REMOTE/LOCAL	LOCAL

< User Menu Setting >

Open the AUDIO item (No. 700 series) of the SETUP-MENU and set the items as shown below.

Item No.	Name	Setting Value
700	MONIL OUT LEV	0 dB
701	MONIR OUT LEV	0 dB
702	MONI CH SEL	AUTO1
703	MONI OUT SEL	PCM

< Measurement Equipment Setting >

In case of use Audio Precision, please set switches as shown below.

OSC Output Impedance	Less than 50 ohm (Balance Out)
Input Impedance	More than 100Kohm (Balance In)

9-2. Output Level Adjustment(AJ-D450)

P.C.B.	ADDA CUE(F8)
SPEC.	0dBu±0.1dBu
TEST	AUDIO OUT: CH1, CH2
ADJ.	VR4221 (CH1), VR4281 (CH2)
INPUT	INT Signal
MODE	EJECT
TAPE	--------------
M.EQ	Audio Analyzer VTVM(Audio Precision)

1. Open Set up menu and set the item “No.722:INT SG” to ON.
2. Adjust VR4221 so that the CH1 level is in the specification.
3. Adjust VR4281 so that the CH2 level is in the specification.
4. Confirm all channels that the sine-wave output is normal.

9-2. Output Level Adjustment(AJ-D440)

P.C.B.	ADDA CUE(F8)
SPEC.	0dBu±0.1dBu
TEST	AUDIO OUT: CH1, CH2
ADJ.	VR4221 (CH1), VR4281 (CH2)
INPUT	----------
MODE	PLAY
TAPE	NTSC: VFM3580KM PAL: VFM3680KM
M.EQ	Audio Analyzer VTVM(Audio Precision)

1. Adjust VR4221 so that the CH1 level is in the specification.
2. Adjust VR4281 so that the CH2 level is in the specification.
3. Confirm all channels that the sine-wave output is normal.

9-3. Monitor Output Level Adjustment (AJ-D450)

P.C.B.	ADDA CUE(F8)
SPEC.	-0.8dBV ± 0.2dB
TEST	MONITOR OUT
ADJ.	VR4341
INPUT	INT Signal
MODE	EJECT
TAPE	---------
M.EQ	Audio Analyzer VTVM (Audio Precision)

1. Open the Set Up menu and set the items " 722: INT SG " to ON.
2. Adjust VR4341 so that the MONITOR OUT level is in the specification.
3. Confirm MONITOR OUT that the sine-wave output is normal.

9-3. Monitor Output Level Adjustment (AJ-D440)

P.C.B.	ADDA CUE(F8)
SPEC.	-0.8dBV ± 0.2dB
TEST	MONITOR OUT
ADJ.	VR4341
INPUT	---------
MODE	PLAY
TAPE	NTSC:VFM3580KM PAL:VFM3680KM
M.EQ	Audio Analyzer VTVM (Audio Precision)

1. Adjust VR4341 so that the MONITOR OUT level is in the specification.
2. Confirm MONITOR OUT that the sine-wave output is normal.

9-4. Input Level Adjustment (Only AJ-D450)

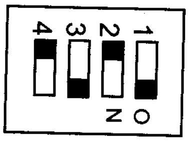
P.C.B.	ADDA CUE(F8)
SPEC.	-0.2dBm ± 0.1dB
TEST	AUDIO OUT (CH1, CH2)
ADJ.	VR4002 (CH1), VR4062 (CH2)
INPUT	1kHz 0dBm Sine-wave (BAL)
MODE	EE
TAPE	----------
M.EQ	Audio Analyzer VTVM (Audio Precision)

1. Adjust VR4002 so that the CH1 level is in the specification.
2. Adjust VR4062 so that the CH2 level is in the specification.

9-5. Initial Setting of CUE Adjustment

< Setting of switches on P.C.Board >

Set the switches indicated as below.

Ref No.	Name of SW	Position
SW4001	CH1 input Impedance	HIGH
SW4061	CH2 input Impedance	HIGH
SW4382	NR Select	NORMAL
SW4381	REC EQ	 1,3 ON

Note: In case of SW4001, 4061 and 4382 did not install on P.C.Board, those 3 switches setting no required.(Case of AJ-D440)

< Measurement Equipment Setting >

In case of use Audio Precision, please set switches as shown below.

OSC Output Impedance	Less than 50 ohm (Balance Out)
Input Impedance	More than 100Kohm (Balance In)

< Service Menu Setting >

Open the AUDIO ADJUST menu on Service menu and set item " E04: LINE OUT CUE " to ON.

9-6. CUE Erase Frequency Adj. (Only AJ-D450)

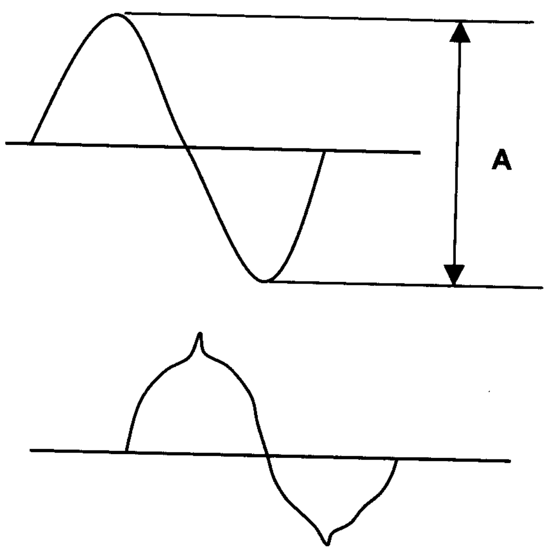
P.C.B.	ADDA CUE (F8)
SPEC.	70kHz±0.2kHz
TEST	TP4501, TG4501 (GND)
ADJ.	T4501
INPUT	-----------
MODE	REC
TAPE	Blank Tape
M.EQ	Frequency Counter

1. Adjust T4501 so that the frequency level is in the specification.

9-7. CTL Erase / CUE Erase Current Adjustment (Only AJ-D450)

P.C.B.	ADDA CUE (F8)
SPEC.	A = 290mVp-p±50mV
TEST	TP4501 (CUE), TP4502 (CTL) TG4501 (GND)
ADJ.	T4503 (CUE), T4504 (CTL)
INPUT	-----------
MODE	REC
TAPE	Blank Tape
M.EQ	Oscilloscope

1. Adjust T4501 so that the voltage at TP4503 is in the specification.
2. Adjust T4504 so that the voltage at TP4502 is in the specification.



Bottom Picture shows bad waveform style.

9-8. CUE Bias Current Adjustment (Only AJ-D450)

P.C.B.	ADDA CUE (F8)
SPEC.	7 mVrms ± 0.5 mVrms (19.7mVp-p ± 1.5mVp-p)
TEST	TP4382, (GND: TP4383)
ADJ.	T4501, VR4501
INPUT	------------
MODE	REC
TAPE	Blank Tape
M.EQ	Vacuum Tube Volt Meter

1. Connect the Vacuum Tube Volt Meter between TP4382 and TP4383(GND) and confirm the voltage is in the specification.
2. If it is out of specification, adjust T4501 so that the level becomes maximum and adjust VR4501 so that the level is in the specification.

9-9. CUE PB Level Adjustment

P.C.B.	ADDA CUE (F8)
SPEC.	0dBu ± 0.5dBu
TEST	AUDIO OUT (CH1)
ADJ.	VR4382(PB LEVEL)
INPUT	------------
MODE	PLAY
TAPE	NTSC: VFM3580KM (0 to 7 min) PAL: VFM3680KM (0 to 10 min)
M.EQ	VTVM (Audio Precision)

1. Playback the alignment tape and adjust VR4382 so that the CUE OUT(AUDIO OUT: CH1) level is in the specification.

9-10.CUE Noise Cancel Adjustment

P.C.B.	ADDA CUE (F8)
SPEC.	Minimum of error rate or Noise level = Less than –40dBu
TEST	TP4381 or AUDIO OUT(CH1)
ADJ.	VR4383, VR4384
INPUT	------------
MODE	PLAY
TAPE	Blank Tape (NO Signal Recorded portion)
M.EQ	Audio Analyzer Oscilloscope (Audio Precision)

1. Connect the TP4381 to scope and observe the noise level of TP4381.
2. Adjust VR4383 and VR4384 so that the noise level is minimum follow the below procedure.

   VR4384(Cancel Level ADJ) ←

   ↓ Repeated 3 or 4 times

   VR4383(Cancel Phase ADJ)

3. In case of use Audio Precision, set indicated as below and connect AUDIO OUT to Audio Precision.
   - ∗ MEASURE: BANDPASS
   - ∗ BP/BR FREQ: 600Hz
   - ∗ FILTER: OFF
4. Adjust VR4383 and VR4384 so that the noise level is in the specification follow the above procedure (item 2).

9-11. CUE REC/PB Level Adjustment (Only AJ-D450)

P.C.B.	ADDA CUE (F8)
SPEC.	0dBu ± 1dBu
TEST	AUDIO OUT (CH1,CH2)
ADJ.	VR4381(REC CURR)
INPUT	LINE IN(CH1,CH2) : 1KHz, 0dBu Sine-wave (BAL)
MODE	REC
TAPE	Blank Tape
M.EQ	Audio Analyzer VTVM (Audio Precision)

1. Supply a 1KHz, 0dBu signal into the LINE Input and record the input signal for a few minutes.
2. Playback the just recorded portion.
3. Adjust VR4381 so that the CUE OUT (AUDIO OUT) level is in the specification.

NOTE: In case of use Audio Precision, set indicated as below.
- ∗ MEASURE: AMPLITUDE
- ∗ BP/BR FREQ: AUTO
- ∗ FILTER: OFF
- ∗ BANDWIDTH: 22Hz, 22KHz

SECTION 5

EXPLODED VIEWS
&
REPLACEMENT PARTS LISTS

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (µF), P=µµF.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the discontinuation of this assembly in production, it will no longer be available.

<< Abbreviations for part >>

< NAME >		< DESCRIPTIONS >
C. CAPACITOR		: CERAMIC CAPACITOR
C. CAPACITOR	CH	: CERAMIC CHIP CAPACITOR
E. CAPACITOR		: ELECTROLYTIC CAPACITOR
G. CAPACITOR		: GLASS CAPACITOR
M. CAPACITOR		: MICA CAPACITOR
P. CAPACITOR		: PLASTIC FILM CAPACITOR
S. CAPACITOR		: SEMI-CONDUCTOR CAPACITOR
T. CAPACITOR		: TANTALUM CAPACITOR
TRIMMER		: TRIMMER
C.RESISTOR		: CARBON RESISTOR
F.RESISTOR		: FUSE RESISTOR
M.RESISTOR		: METAL OXSIDE RESISTOR
M.RESISTOR	CH	: METAL OXSIDE CHIP RESISTOR
S.RESISTOR		: SOLID RESISTOR
V.RESISTOR		: VARIABLE RESISTOR
W.RESISTOR		: WIRE WOUND RESISTOR
COMBI. TR-R		: TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R		: RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R		: CAPACITOR-RESISTOR COMBINATION PARTS
COMBI. C-R-R		: CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C.-BOARD		: PRINTED CIRCUIT BOARD
W/COMPONENT		: WITH COMPONENT

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Mechanical Chassis Assembly (1) ······ PRT-9
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Electrical Replacement Parts List ······ PRT-18

ERVICING FIXTURES & TOOLS

AJ-D450/440PE

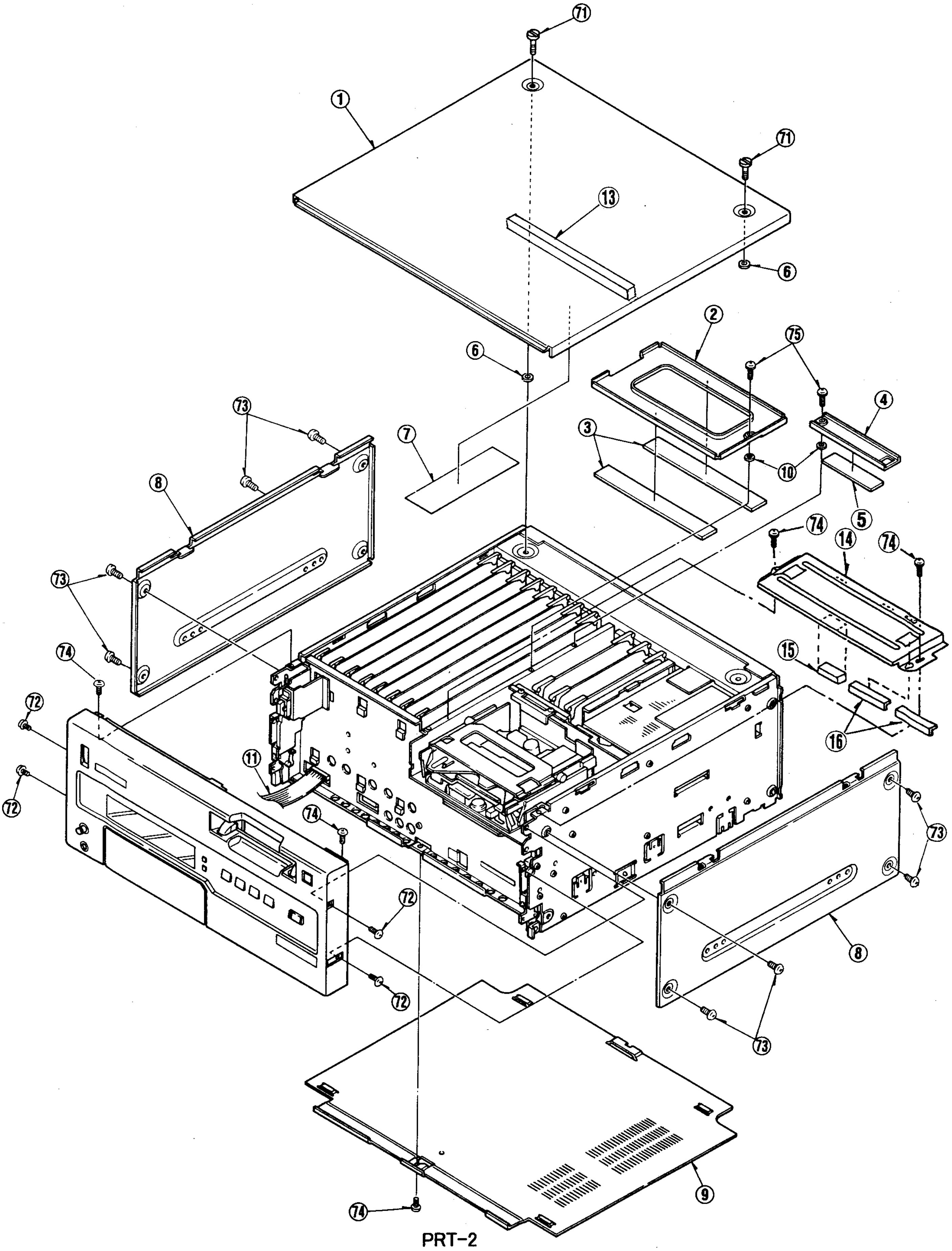
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145	BACK TENSION METER	1	
2	VFK1149	POST DRIVER	1	
3	VFK71	DIAL TORQUE GAUGE (150G)	1	
4	VFK1191	DIAL TORQUE GAUGE (45G)	1	
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR	1	
6	VFK0357	ECCENTORIC SCREWDRIVER	1	
7	VFL1154	POST HEIGHT FIXTURE	1	
8	VFK1153	MECH. NEUTRAL PLATE	1	
9	VFK0906	OIL	1	
10	VFK1155	REV POSITION TOOL	1	
11	VFK1156	PLAY POSITION TOOL	1	
12	VFK1208	NEUTRAL POSITION TOOL	1	
13	VFK1150	NUT DRIVER (5.5MM)	1	
14	VFK1151	NUT DRIVER (2.5MM)	1	
15	VFK1188	DIAL TENSION GAUGE (30G)	1	
16	VFK0948A	CHECK LIGHT	1	
17	VFK0749	FROIRAL GREASE	1	
18	MOR265	MORLYTONE GREASE	1	
19	VFK1146	PHILIPS DRIVER (FINE)	1	
20	VFK1147	PHILIPS DRIVER (FINE)	1	
21	VFK1148	HEX. DRIVER (1.5)	1	
22	VFK1178	HEX. DRIVER (0.89)	1	
23	VFK1179	HEX. DRIVER (0.71)	1	
24	VFK1190	HEX. WRENCH	1	
25	VFK1209	TORQUE DRIVER	1	
26	VFK1375	POST AXIS DRIVER (1.5MM)	1	
27	VFK1300	A/D BOARD	1	
28	VFM3580KM	ALIGNMENT TAPE (NO.1)	1	FOR NTSC
29	VFM3581KM	ALIGNMENT TAPE (NO.2)	1	FOR NTSC
30	VFM3582KM	ALIGNMENT TAPE (NO.3)	1	FOR NTSC
31	VFM3680KM	ALIGNMENT TAPE (NO.1)	1	FOR PAL
32	VFM3681KM	ALIGNMENT TAPE (NO.2)	1	FOR PAL
33	VFM3682KM	ALIGNMENT TAPE (NO.3)	1	FOR PAL
34	VFM3000EDS	ALIGNMENT TAPE (DV LISTA)	1	
35	VFM3010EDS	ALIGNMENT TAPE	1	
36	VFM3110EDS	ALIGNMENT TAPE	1	
37	AJ-CL12MP	CLEANING TAPE	1	
38	VFK1481	LISTA SOFTWARE	1	
39	VFK1186	LISTA CABLE	1	
40	VFK1423	TAPE DET. SENSOR CASSETTE	1	
41	VZZ0095	CLEANING CROSS	1	
42	VFK1248A	FLASH ROM VERSION UP SOFT	1	
43	VFK1304A	ROM REWRITER	1	
44	VFK1305	120P EXTENDER	1	
45	VFK1307	70P EXTENDER	1	
46	VFK1306	52P EXTENDER	1	
47	VFK0369	TWEEZERS	1	
48	VFK0371	RADIO PRIER	1	
49	VFK0372	CUTTER PRIER	1	
50	VFK0338	TRIMMER ADJUSTMENT DRIVER	1	
51	VFK0337	PHILIPS DRIVER	1	

CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VGM1270	TOP PANEL	1	
2	VMP6138	P.C.BOARD PLATE L	1	
3	VMX2511	P.C.BOARD RUBBER CUSHION L	2	
4	VMP4885	P.C.BOARD PLATE S	1	
5	VMX2512	P.C.BOARD RUBBER CUSHION S	1	
6	VMX2510	SPACER	2	
7	VMZ2325	TOP PANEL BARRIER	1	
8	VGM1567	SIDE PANEL	2	
9	VKU0546	BOTTOM PLATE	1	
10	VMX1558	NYLON WASHER	2	
11	VEE9641	FRONT CABLE	1	
12	VMX2582	WASHER	2	
13	VMT0785	DUST PROOF CUSHION	1	
14	VMP5265	CARRIGE SUPPORT METAL	1	
15	VMT0493	CUSHION	1	
16	VMT0776	GASKET (D)	1	
17	VMT0800	GASKET	7	
18	VMT0509	CONDUCTIVE CUSHION D	1	
19	VMT0884	GASKET (O)	1	FOR AJ-D450E/D440E
71	VHD0775	SCREW	2	
72	XSB3+8FZ	SCREW	8	
73	XSB4+8FC	SCREW	8	
74	XTV3+6F	SCREW	5	
75	XYN3+K8	SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CASING PARTS ASSEMBLY



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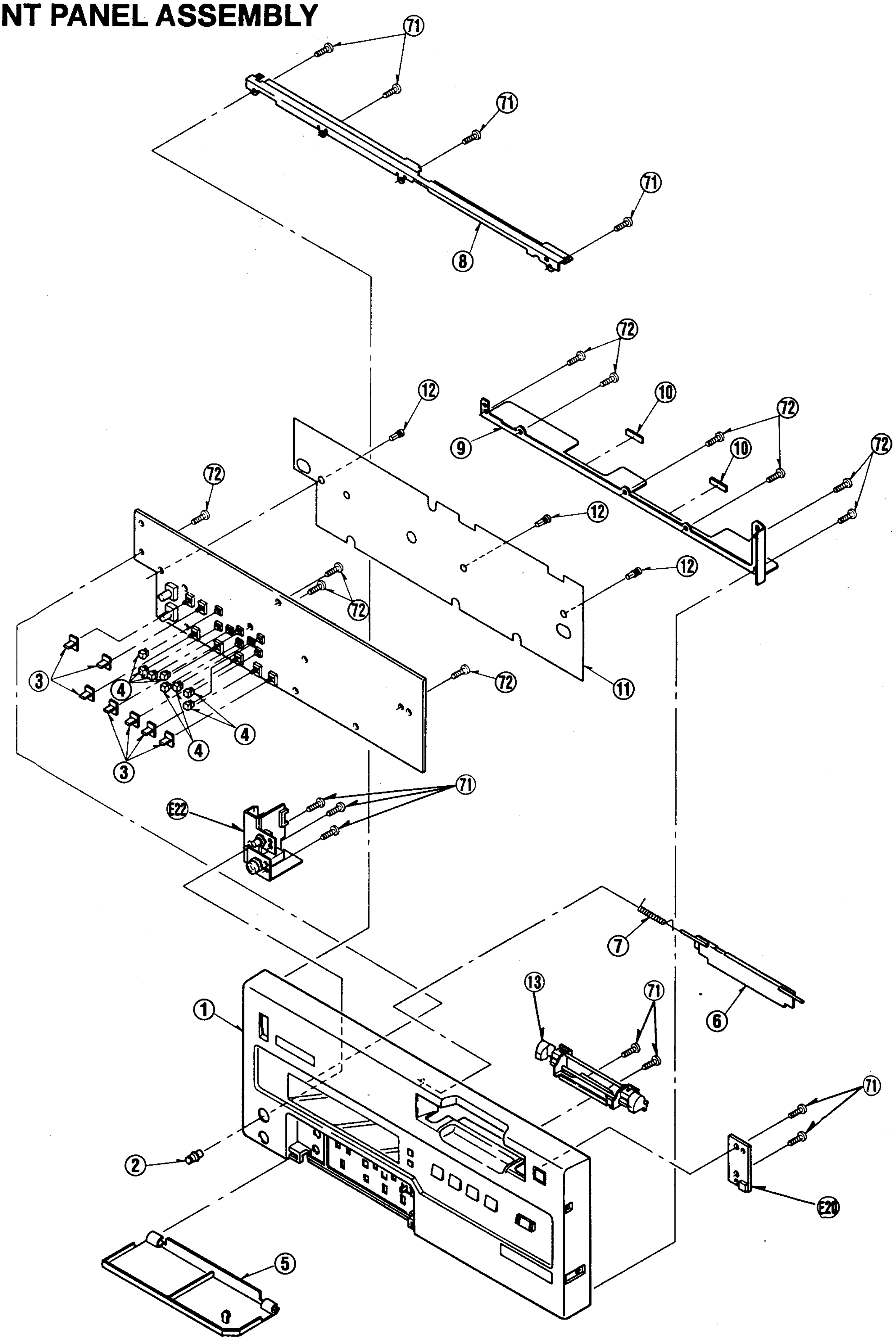
FRONT PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7302	FRONT PANEL (1) ASS'Y	1	FOR AJ-D450P/E
1	VYP7303	FRONT PANEL (1) ASS'Y	1	FOR AJ-D440P/E
2	VGU5334	LEVER VR KNOB	1	
3	VGU6516	SLIDE SW KNOB (L)	7	
4	VGU7459	TACT SW KNOB	8	
5	VKW2680	FRONT DOOR	2	
6	VKF2785	BLINDER PANEL	1	
7	VMB2923	BLINDER SPRING	1	
8	VMP4864	UPPER FRONT PANEL ANGLE	1	
9	VMP5240	PANEL SUPPORT ANGLE (LOWER)	1	
10	VMT0800	GASKET	2	
11	VMZ2651	INSULATION SHEET	1	
12	VJF0108	SPACER	3	
13	VYQ1653	CASSETTE GUIDE ASS'Y	1	
14	VMT0847	GASKET	1	FOR AJ-D450E/D440E
71	XTV3+8G	SCREW	11	
72	XTN4+10G	SCREW	10	
E20	VEP80A09A	EJECT P.C.BOARD	1	
E22	VEP80A10A	HEAD PHONE P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRONT PANEL ASSEMBLY



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Components identified with the mark ⚠ have the special characteristics for s
When replacing any of these components, use only the same type.

CHASSIS FRAME ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6022	LEFT SIDE FRAME	1	
2	VGQ4011	P.C.BOARD GUIDE RAIL A	2	
3	VYQ1259	ROTARY BRACKET L	1	
4	VGQ4012	P.C.BOARD GUIDE RAIL B	2	
5	VMP5640	REAR FRAME	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP6020	BOTTOM FRAME	1	
8	VMP4881	SW BRACKET	1	
⚠ 9	EST15372T	POWER SWITCH	1	FOR AJ-D450P/D440P
⚠ 9	EST15367S	POWER SWITCH	1	FOR AJ-D450E/D440E
⚠ 10	VMZ0580	SW COVER	1	
11	VJF0285	WIRE LOCKING SADDLE	4	
12	VJF1259	EDGE HOLDER	1	
13	VMP6023	FRONT FRAME	1	
14	VJF0004	WIRE SADDLE	3	
15	VMP4873	CENTER FRAME	1	
16	VXA5550	MECHANISM FRAME ASS'Y	1	
17	VGF0715	FPC BARRIER	1	
18	VMP4874	CENTER SUB FRAME	1	
19	VMP5285	BOTTOM FRAME ANGLE	4	
20	VMP4875	MIDDLE FRAME	1	
21	VYQ1258	ROTARY BRACKET R	1	
22	VMP6021	SIDE FRAME R	1	
23	VJF0384	CLAMPER	2	
24	VMP5264	FPC SHIELD COVER	1	
25	VGF0714	BARRIER (A)	1	
71	VHD5013	SCREW	2	
72	XTN3+6F	SCREW	2	
73	XTV3+6F	SCREW	31	
74	XTV3+6FFR	SCREW	9	
76	XYNV3+K12S	SCREW	4	
E1	VEP80A11B	MOTHER C.B.A.	1	
E2	VEP82105F	F1 SERVO P.C.BOARD	1	FOR AJ-D450P/D440P
E2	VEP82105G	MOTHER P.C.BOARD	1	FOR AJ-D450E/D440E
E3	VEP86146M	F2 SYSCON P.C.BOARD	1	FOR AJ-D450P
E3	VEP86146N	F2 SYSCON P.C.BOARD	1	FOR AJ-D450E
E3	VEP86146P	F2 SYSCON P.C.BOARD	1	FOR AJ-D440P
E3	VEP86146Q	F2 SYSCON P.C.BOARD	1	FOR AJ-D440E
E4	VEP83352C	F4 V OUT P.C.BOARD	1	FOR AJ-D450P/D440P
E4	VEP83352B	F4 V OUT P.C.BOARD	1	FOR AJ-D450E/D440E
E5	VEP83353F	F5 REC PB P.C.BOARD	1	FOR AJ-D450P/D440P
E5	VEP83353E	F5 REC PB P.C.BOARD	1	FOR AJ-D450E/D440E
E6	VEP83397B	F6 V IN P.C.BOARD	1	FOR AJ-D450P
E6	VEP83398A	F6 V IN P.C.BOARD	1	FOR AJ-D450E
E7	VEP84292A	F7 A PROC P.C.BOARD	1	FOR AJ-D450P/D450E
E7	VEP84292D	F7 A PROC P.C.BOARD	1	FOR AJ-D440P/D440E
E8	VEP84293E	F8 ADDA/CUE P.C.BOARD	1	FOR AJ-D450P/D440P
E8	VEP84293B	F8 ADDA/CUE P.C.BOARD	1	FOR AJ-D450E/D440E
E9	VEP85048A	H3 EQ P.C.BOARD	1	
E10	VEP85049B	H4 AMP P.C.BOARD	1	
E11	VEP85151B	HEAD BUFF P.C.BOARD	1	
E12	VEP80991A	AC HEAD IF P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Components identified with the mark ⚠ have the special characteristics for safety.
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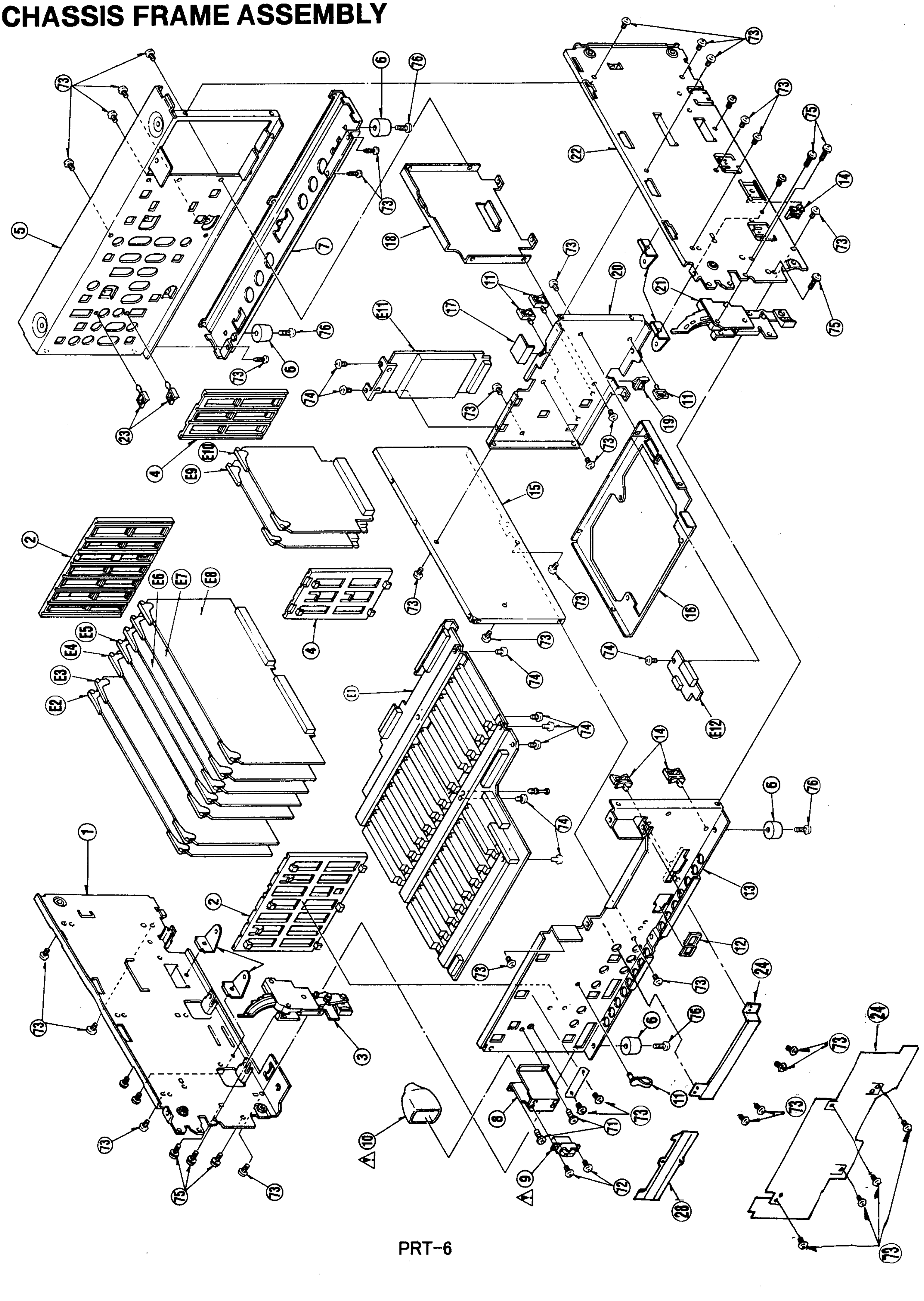
CHASSIS FRAME ASSEMBLY



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REAR PANEL ASSEMBLY

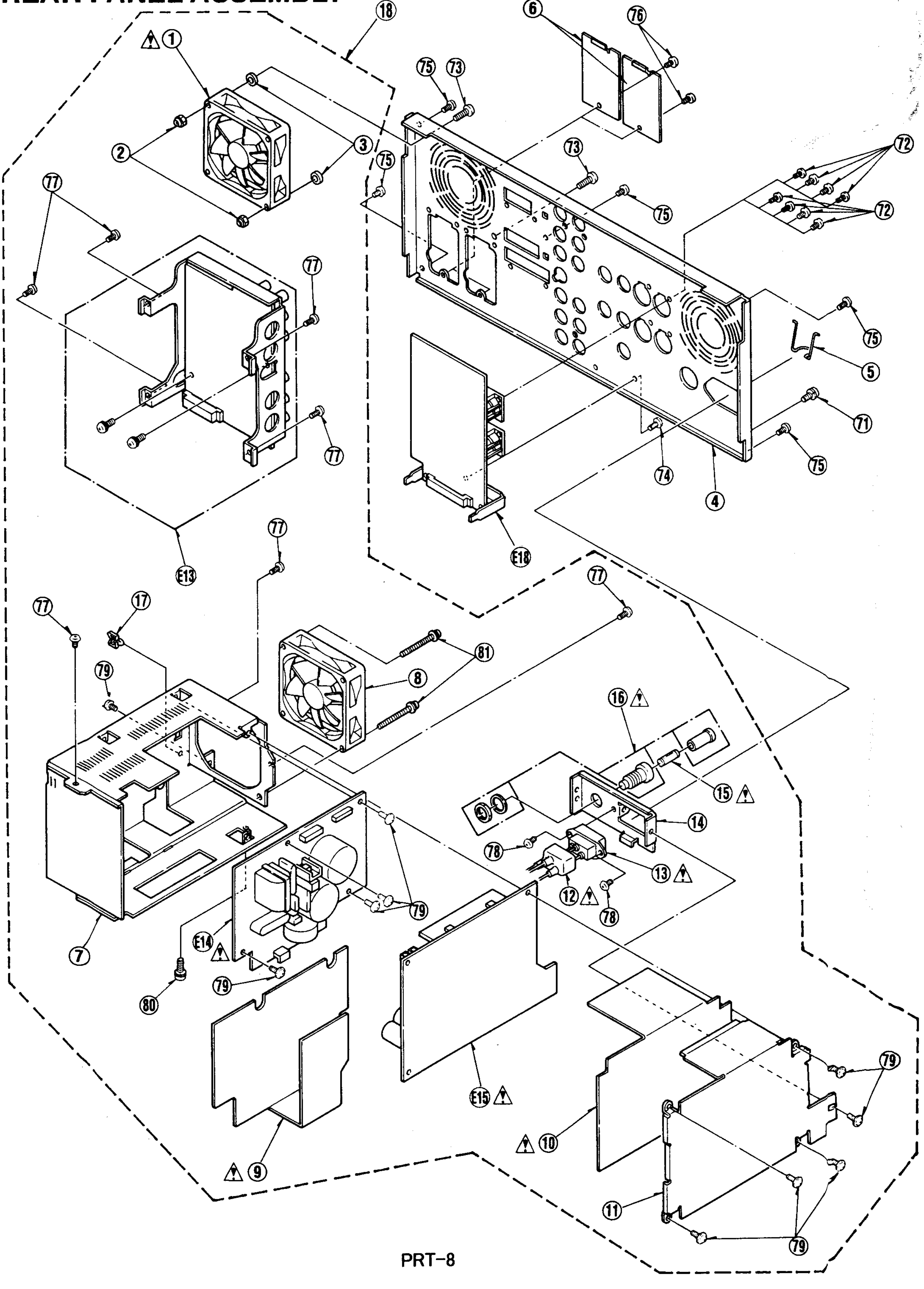
Components identified with the mark ⚠ have the special characteristics for sa
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VRF0190	FAN MOTOR	1	
2	VHN0063	NYLON NUT	2	
3	VMX0835	SPACER	2	
⚠ 4	VJH0970	JACK PANEL	1	FOR AJ-D450P
⚠ 4	VJH1108	JACK PANEL	1	FOR AJ-D450E
⚠ 4	VJH1098	JACK PANEL	1	FOR AJ-D440P
⚠ 4	VJH1102	JACK PANEL	1	FOR AJ-D440E
5	VML2903	AC CORD HOOK	1	
6	VMP5032	OPTION PANEL	2	
⚠ 7	VSC4387	POWER SUPPLY CASE A	1	FOR AJ-D450P/D440P
⚠ 7	VSC4777	POWER SUPPLY CASE A	1	FOR AJ-D450E/D440E
8	VRF0190	FAN MOTOR	1	
⚠ 9	VMZ2502	SHIELD SHEET A	1	
⚠ 10	VMZ2503	SHIELD SHEET B	1	
11	VSC4388	POWER SUPPLY CASE B	1	
⚠ 12	VMZ1252	AC INLET COVER	1	
⚠ 13	VJP0083	AC INLET	1	
14	VMP4889	AC INLET BRACKET	1	
⚠ 15	XBA1C50NB5	FUSE	1	FOR AJ-D450P/D440P
⚠ 15	XBA2C40TH15	FUSE	1	FOR AJ-D450E/D440E
⚠ 16	VJF1005	FUSE HOLDER	1	
17	VJF0285	WIRE LOCKING SADDLE	1	
⚠ 18	VEK7686	POWER SUPPLY ASS'Y	1	
71	XYE4+EF8	SCREW	1	
72	XSN26+6FZ	SCREW	8	
73	XSN4+35FC	SCREW	2	
74	XTN26+6FFZ	SCREW	1	
75	XTV3+6F	SCREW	5	
76	XTV3+6FFZ	SCREW	4	
77	XTV3+6FFR	SCREW	7	
78	XSB3+6FZ	SCREW	2	
79	XTW3+8LR	SCREW	10	
80	XYE4+EF8	SCREW	1	
81	XYNV4+K35FCS	SCREW	2	
E13	VEP83224B	V/S JACK P.C.BOARD	1	FOR AJ-D450P/D450E
E13	VEP83417C	V/S JACK P.C.BOARD	1	FOR AJ-D440P/D440E
E14	VEP81074A	POWER 1 P.C.BOARD	1	FOR AJ-D450P/D440P
E14	VEP81183A	POWER 1 P.C.BOARD	1	FOR AJ-D450E/D440E
E15	VEP81075A	POWER 2 P.C.BOARD	1	FOR AJ-D450P/D440P
E15	VEP81184B	POWER 2 P.C.BOARD	1	FOR AJ-D450E/D440E
E18	VEP84291A	A JACK P.C.BOARD	1	FOR AJ-D450P/D450E
E18	VEP84291E	A JACK P.C.BOARD	1	FOR AJ-D440P/D440E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

REAR PANEL ASSEMBLY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Components identified with the mark ⚠ have the special characteristics for
When replacing any of these components, use only the same type.

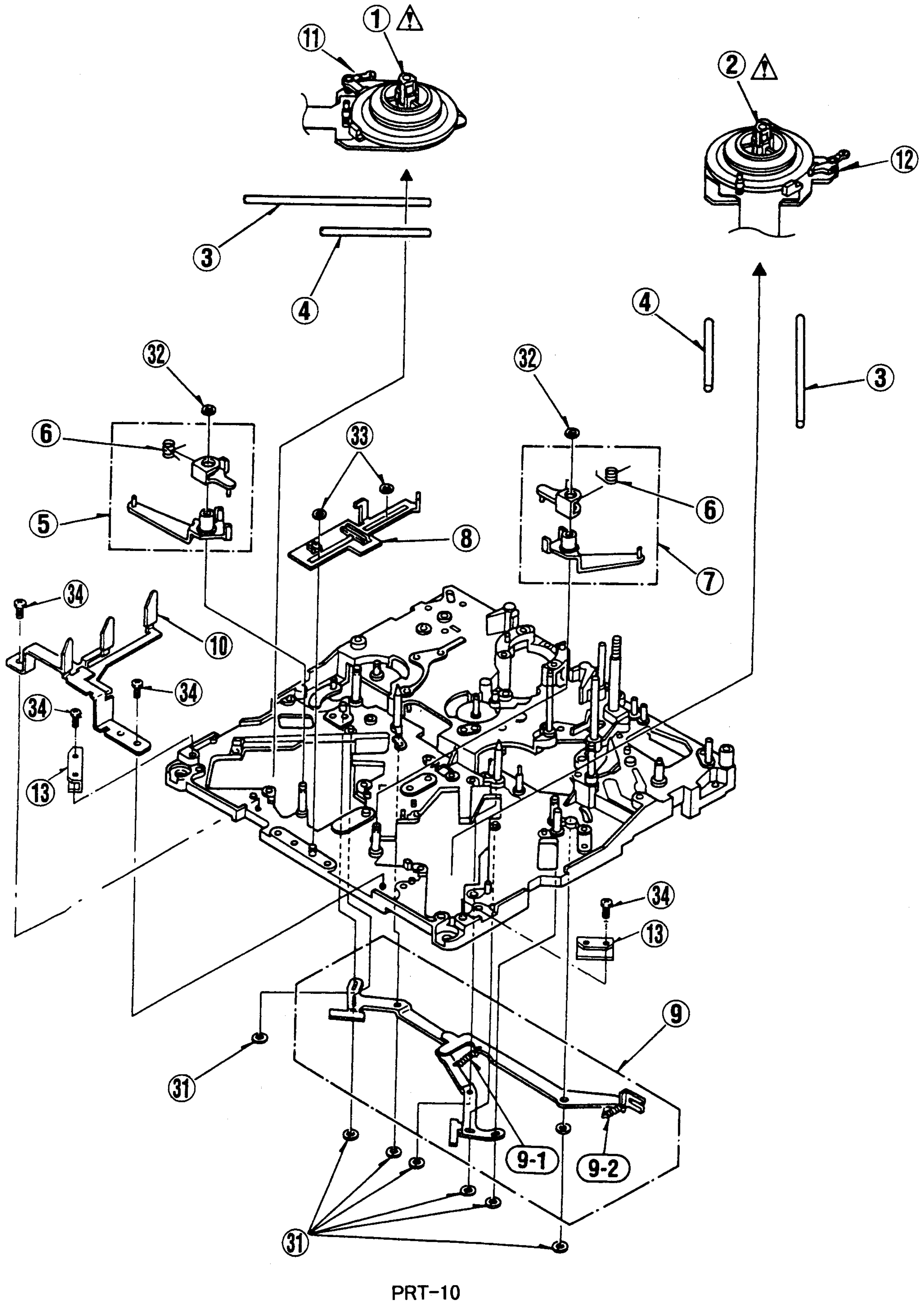
MECHANICAL CHASSIS ASSEMBLY(1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEM0686	S REEL MOTOR A ASS'Y	1	(M)
⚠ 2	VEM0687	T REEL MOTOR A ASS'Y	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM ASS'Y	1	
6	VMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1	
8	VXA5625	SLIDE ROD ASS'Y	1	
9	VXL2597	M STOPPER DRIVE ARM ASS'Y	1	
9-1	VMB2955	M STOPPER SPRING (1)	1	
9-2	VMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M BRAKE RELEASE ASS'Y	1	
11	VXZ0439	S BRAKE ARM ASS'Y	1	
12	VXZ0440	T BRAKE ARM ASS'Y	1	
13	VMZ2603	REEL FLEX COVER	2	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX1394	CUT WASHER	2	
34	XQN2+CF3	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Components identified with the mark ⚠ have the special characteristics for safety.
When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY(1)



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Components identified with the mark ⚠ have the special characteristics for s
When replacing any of these components, use only the same type.

MECHANICAL CHASSIS ASSEMBLY(2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1	(M)
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
5	VEG1498	CYLINDER UNIT	1	(M)
6	VXA5715	EMARGENCY SHIFT HOLDER ASS'Y	1	
⚠ 7	VEM0645	LOADING MOTOR (1)A ASS'Y	1	(M)
8	VSJ0227	PINCH SOLENOID	1	(M)
9	VXA5584	MOTOR ANGLE ASS'Y	1	
10	VES0918	MODE SW ASS'Y	1	(M)
11	VMA0A35	PINCH SOLENOID BASE	1	
12	VXL2924	CLEANING ARM A ASS'Y	1	(M)
12-1	VMX2150	CLEANER ROLLER HOLDER	1	
12-2	VXP1963	CLEANER ROLLER ASS'Y	1	
12-3	VMB3114	CLEANER ROLLER SPRING	1	
13	VXL2870	T2 ARM ASS'Y	1	
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2831	TENSION ARM A ASS'Y	1	(M)
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791	TENSION LEG SPRING HOOK ASS'	1	
16	VXL2709	S1 LOADING ARM ASS'Y	1	(M)
17	VMD3731	LOADING RAIL	1	
18	VXA6378	T1 BOAT ASS'Y	1	(M)
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1	
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2898	T LOADING ARM ASS'Y	1	(M)
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULLATION SENSOR	1	
31	VEK7691	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR ASS'Y	1	
34	VXL2835	PINCH ARM ASS'Y	1	(M)
35	VXL2588	PINCH GUIDE ARM ASS'Y	1	
36	VXA5570	T SECTOR GEAR ASS'Y	1	
37	VXL2838	TENSION LEG. GUIDE ARM	1	
38	VXA5567	S SECTOR GEAR ASS'Y	1	
39	VXA5564	T4 SECTOR GEAR ASS'Y	1	
40	VXA6348	MAIN ROD ASS'Y	1	
41	VXA5627	THRUST SHAFT HOLDER ASS'Y	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	
45	VXL2889	MAIN CAM ARM ASS'Y	1	
46	VDG1168	MAIN CAM GEAR	1	(M)
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXL2600	EJECT ARM ASS'Y	1	
49	VMD3475	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1	(M)
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS'Y	1	(M)
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	VMX1394	CUT WASHER	1	
*	VXY1431Z1	MECHANISM	1	

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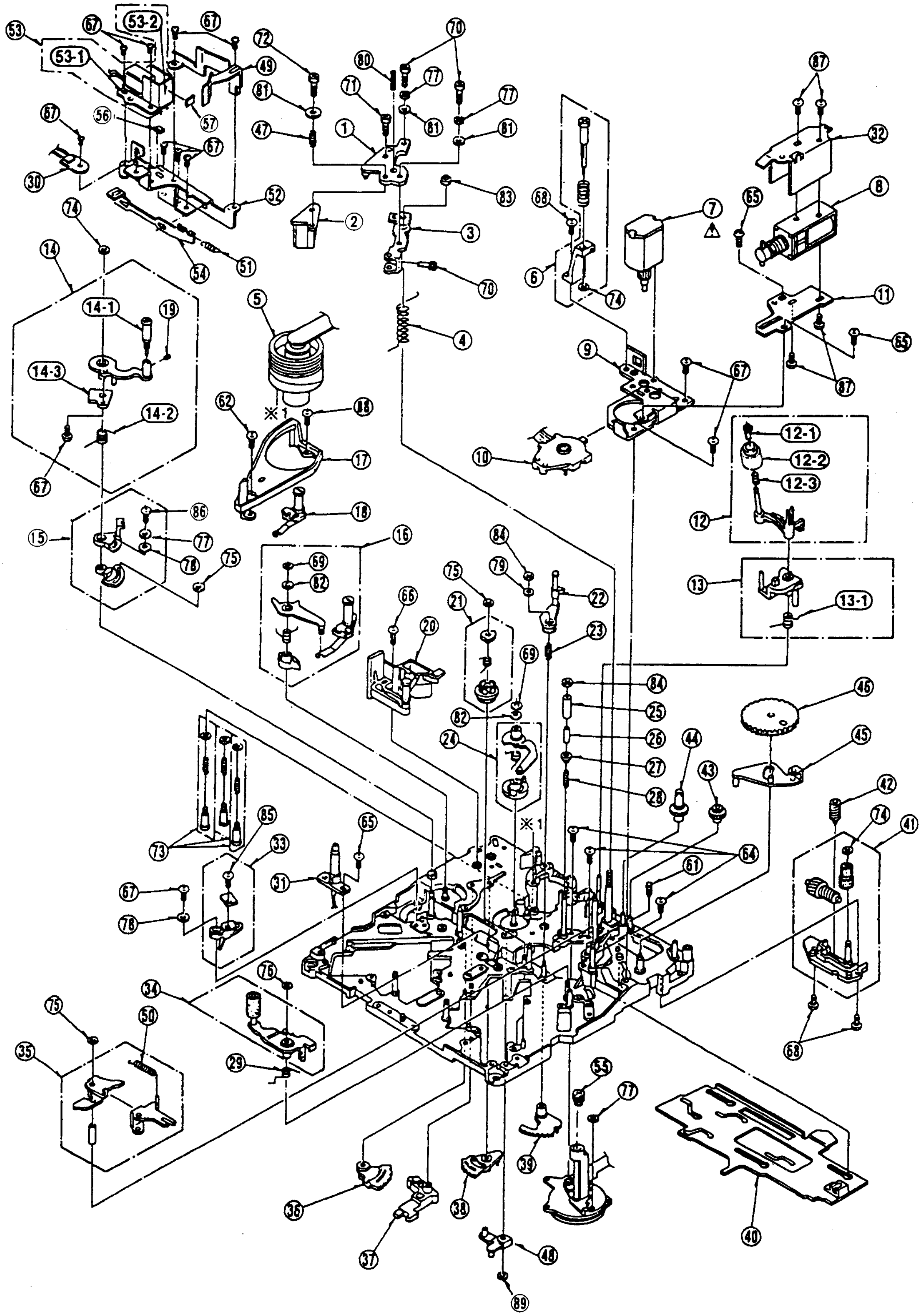
MECHANICAL CHASSIS ASSEMBLY(2)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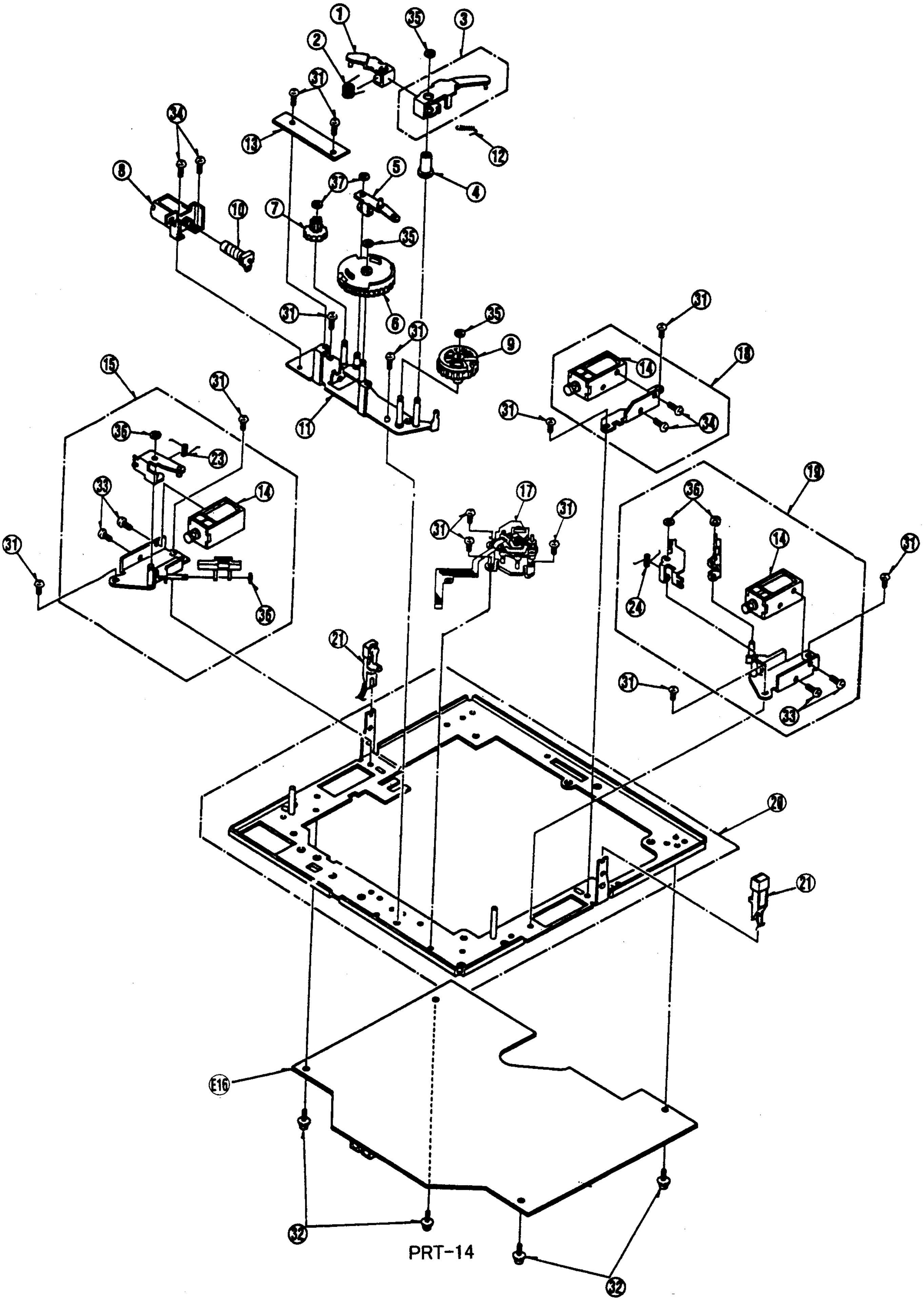
SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1	
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698	REEL DRIVE WORM ASS'Y	1	
11	VXA5628	MOTOR BASE ASS'Y	1	
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	BRAKE SOLENOID	3	(M)
15	VXA5575	S-BRAKE SOLENOID BASE ASS'Y	1	
17	VXA6199	DISTINCTION SW ASS'Y	1	(M)
18	VXA5579	M STOPPER SOLENOID ASS'Y	1	
19	VXA5887	T-BRAKE SOLENOID BASE ASS'Y	1	
20	VXK1543	SUB CHASSIS	1	
21	VEK7692	SENSOR HOLDER ASS'Y	1	
22	VMS6193	T BRAKE RELEASE ARM SHAFT	1	
23	VMB2957	S BRAKE SPRING	1	
24	VMB2987	T BRAKE SPRING	1	
31	XQN2+CF3	SCREW	13	
32	XYN26+K6	SCREW	4	
33	XQN2+A1.5	SCREW	2	
34	XQN2+A2	SCREW	2	
35	VMX1079	CUT WASHER	5	
36	VMX0967	CUT WASHER	4	
37	VMX1548	CUT WASHER	2	
38	XQN2+A1.5	SCREW	4	
E16	VEP82216B	MECH I/F P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

SUB CHASSIS ASSEMBLY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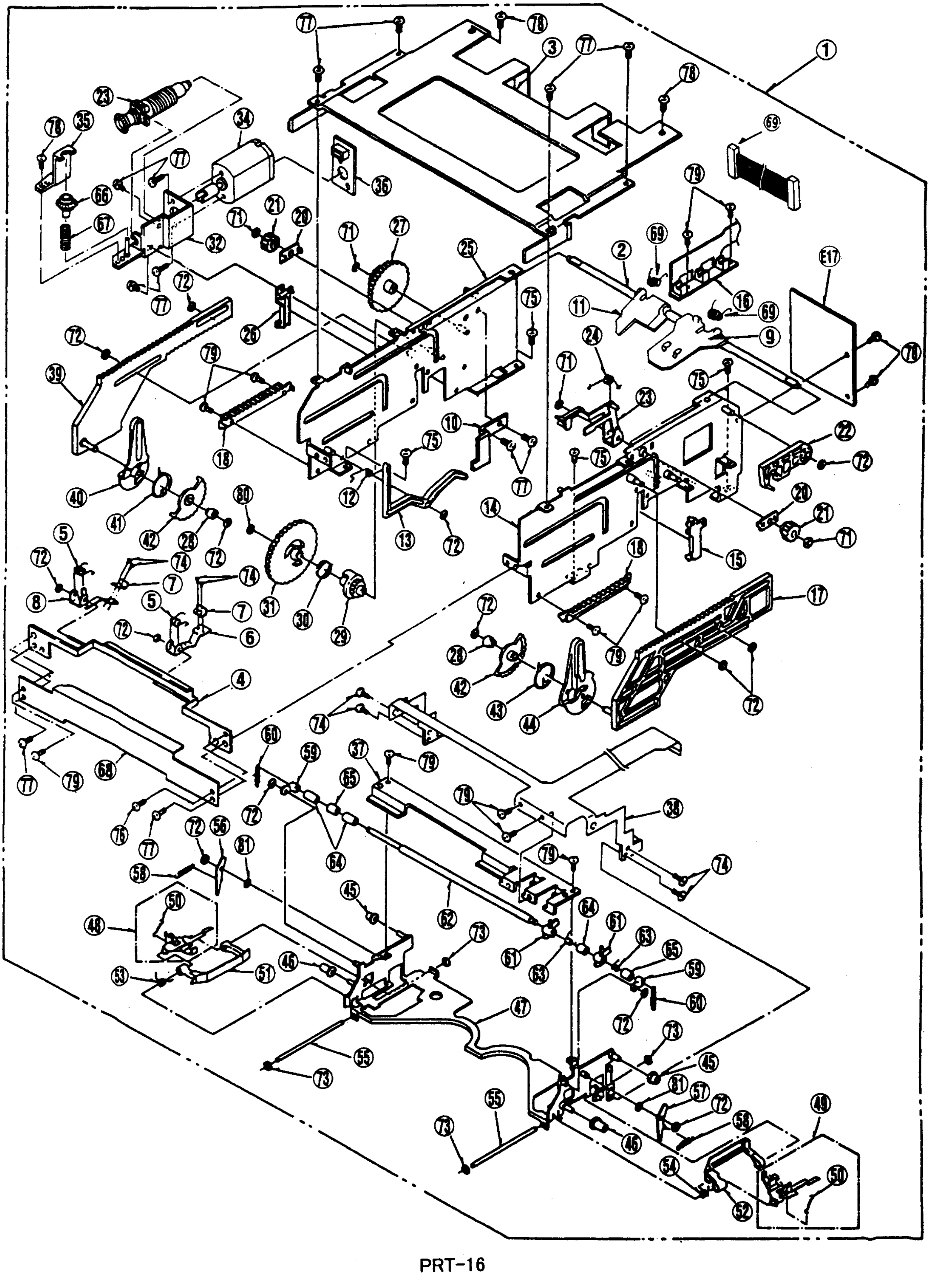
CASSETTE COMPARTMENT ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA5761	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
10	VMA9760	L OPENER	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM L	1	
41	VMB3391	WIPER SPRING L	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING R	1	
44	VML3484	WIPER ARM R	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6666	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	ML DETECTION ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECTION SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	1	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	4	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	
76	XQN2+A2	SCREW	2	
77	VHD1323	SCREW	12	
78	XQN2+A3	SCREW	5	
79	LMHD16064	SCREW	10	
80	XWGV2Y4G	WASHER	2	
81	XWGV2Z5G	WASHER	2	
E17	VEP80856A	CARRIGE P.C.BOARD	1	

CASSETTE COMPARTMENT ASSEMBLY



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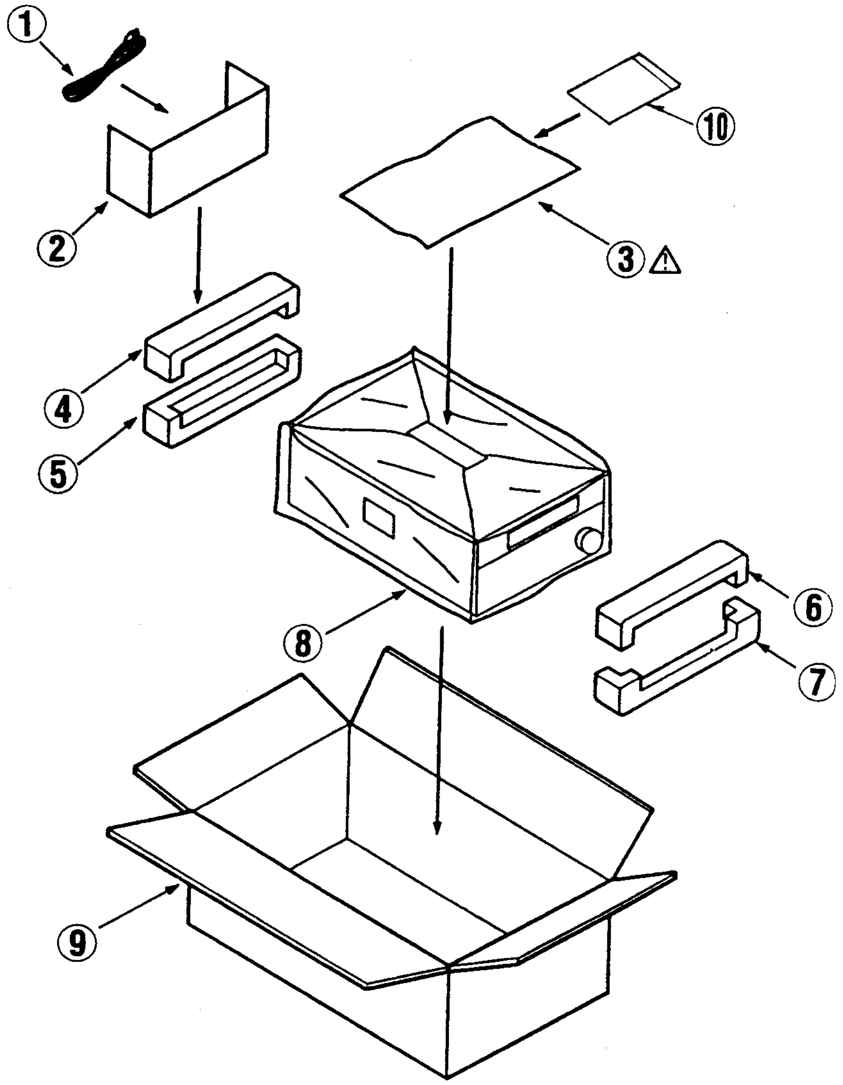
Components identified with the mark ⚠ have the special characteristics for safety
When replacing any of these components, use only the same type.

PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

AJ-D450/440

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VJA0488	POWER CODE	1	FOR AJ-D450P/D440P
⚠ 1	VJA0774	POWER CODE	1	FOR AJ-D450E/D440E
⚠ 1	VJA0775	POWER CODE	1	FOR AJ-D450E/D440E
2	VPN4305	ACCESSORY PAD	1	
⚠ 3	VQT6816	OPERATING INSTRUCTIONS	1	FOR AJ-D450P/D440P
⚠ 3	VQT8152	OPERATING INSTRUCTIONS	1	FOR AJ-D450E/D440E
4	VPN4302	CUSHION UL	1	
5	VPN4304	CUSHION LL	1	
6	VPN4606	CUSHION UR	1	
7	VPN4607	CUSHION LR	1	
8	VPF0277	POLYETHYLENE BAG	1	FOR AJ-D450P/D440P
8	VPF0673	POLYETHYLENE BAG	1	FOR AJ-D450E/D440E
9	VPG9951	PACKING CASE	1	FOR AJ-D450P
9	VPG0A15	PACKING CASE	1	FOR AJ-D450E
9	VPG9953	PACKING CASE	1	FOR AJ-D440P
9	VPG0A14	PACKING CASE	1	FOR AJ-D440E
10	VXF0159	EMERGENCY EJECT ASS'Y	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

LECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80A11A	MOTHER P.C.BOARD	1	(RTL)
■ E2	VEP82105F	F1 SERVO P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
■ E2	VEP82105G	F1 SERVO P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
■ E3	VEP86146M	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D450P
■ E3	VEP86146N	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D450E
■ E3	VEP86146P	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D440P
■ E3	VEP86146Q	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D440E
■ E4	VEP83352C	F4 V OUT P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
■ E4	VEP83352B	F4 V OUT P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
■ E5	VEP83353D	F5 REC PB P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
■ E5	VEP83353E	F5 REC PB P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
■ E6	VEP83397B	F6 V IN P.C.BOARD	1	(RTL)FOR AJ-D450P
■ E6	VEP83398A	F6 V IN P.C.BOARD	1	(RTL)FOR AJ-D450E
■ E7	VEP84292A	F7 A PROC P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
■ E7	VEP84292D	F7 A PROC P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
■ E8	VEP84293A	F8 ADDA/CUE P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
■ E8	VEP84293B	F8 ADDA/CUE P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
■ E9	VEP85048A	H3 EQ P.C.BOARD	1	(RTL)
■ E10	VEP85049A	H4 RF AMP P.C.BOARD	1	(RTL)
■ E11	VEP85151A	HEAD BUFF P.C.BOARD	1	(RTL)
■ E12	VEP80991A	AC HEAD I/F P.C.BOARD	1	(RTL)
■ E13	VEP83224B	V/S JACK P.C.BOARD	1	(RTL)AJ-D450P/D450E
■ E13	VEP83417C	V/S JACK P.C.BOARD	1	(RTL)AJ-D440P/D440E
■ E14	VEP81074A	POWER 1 P.C.BOARD	1	(RTL)AJ-D450P/D440P
■ E14	VEP81183A	POWER 1 P.C.BOARD	1	(RTL)AJ-D450E/D440E
■ E15	VEP81075A	POWER 2 P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
■ E15	VEP81184B	POWER 2 P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
■ E16	VEP82216B	MECH I/F P.C.BOARD	1	(RTL)
■ E17	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E18	VEP84291A	A JACK P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
■ E18	VEP84291E	A JACK P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
■ E19	VEP80A12A	SUB JACK P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
■ E19	VEP80A12B	SUB JACK P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
■ E20	VEP80A09A	EJECT P.C.BOARD	1	(RTL)
■ E21	VEP86256A	FRONT CPU P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
■ E21	VEP86256B	FRONT CPU P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
■ E22	VEP80A10A	HEAD PHONE P.C.BOARD	1	(RTL)
■ E23	VEP80A58A	POWER CONNECTION P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP80A11A	MOTHER P.C.BOARD	1	(RTL)
P001-16	VJS3814	CONNECTOR (FEMALE)	16	
P019,20	VJS3814	CONNECTOR (FEMALE)	2	
P021	VJP3095	CONNECTOR (MALE)	1	
P022	VJP3091	CONNECTOR (MALE)	1	
P023	VJP2891A030	CONNECTOR (MALE)	1	
P024	VJP3418A080	CONNECTOR (MALE)	1	
P025	VJP2824B003	CONNECTOR (MALE)	1	
P026	VJP2824B006	CONNECTOR (MALE) 6P	1	
P027	VJP2824B008	CONNECTOR (MALE)	1	
P029,30	VJS3375B060	CONNECTOR (FEMALE)	2	
P031	VJP3080	CONNECTOR (MALE)	1	
P032	VJP1230T	CONNECTOR (MALE) 3P	1	
P033	VJP3375A060	CONNECTOR (MALE)	1	
P036	VJP3090	CONNECTOR (MALE)	1	
		MISCELLANEOUS		
	VMP5641	MOTHER ANGLE (A)	1	
	VMP5642	MOTHER ANGLE (B)	1	
	VMP5643	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	10	
	XTV26+6F	SCREW	2	
■ E2	VEP82105F	F1 SERVO P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
C1,C2	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5,C6	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C7	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C8,C9	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C10	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C11,12	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C13	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C14	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C15	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C30-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C35	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C36-38	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C39	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C40,41	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	2	
C42,43	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C60,61	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C63-74	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	12	
C80,81	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C83	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C84	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C85,86	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C88	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C89,90	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C91	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C92,93	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C94,95	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C120,21	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C123	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C124,25	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C126	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C127,28	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C129,30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C131,32	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C133,34	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C135	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C160,61	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C162	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C163, 64	ECUM1H100DCN	C. CAPACITOR CH 50V 10P	2	
C165	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C166, 67	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2	
C168, 69	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C170, 71	ECUX1H102JCN	C. CAPACITOR CH 50V 1000P	2	
C172	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C173, 74	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	2	
C175	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C200	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C202, 03	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C204	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C205-07	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C208-10	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	3	
C211	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C212, 13	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C214	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C215, 16	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C218	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C230-32	ECUX1H102JCN	C. CAPACITOR CH 50V 1000P	3	
C233-36	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	4	
C237	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C238	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C239	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C240-49	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	10	
C250, 51	ECUV1H120JCN	C. CAPACITOR CH 50V 12P	2	
C260, 61	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C263-70	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	8	
C280-86	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	7	
C300-02	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C303	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C304-08	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	5	
C309	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C320, 21	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C322	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C323	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C324	ECUV1H682KBN	C. CAPACITOR CH 50V 6800P	1	
C325, 26	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	2	
C327, 28	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	
C329	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C330	ECUX1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C331-34	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	4	
C335, 36	ECUM1H080DCN	C. CAPACITOR CH 50V 8P	2	
C337	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C340	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C341	ECA1EXLV101	E. CAPACITOR 25V 100U	1	
C342, 43	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C344	ECUV1H682KBN	C. CAPACITOR CH 50V 6800P	1	
C345	ECA1EXLV101	E. CAPACITOR 25V 100U	1	
C346-48	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C349-53	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	5	
C354	ECUX1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C355	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C356	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C357	ECUV1H682KBN	C. CAPACITOR CH 50V 6800P	1	
C358	ECA1EXLV101	E. CAPACITOR 25V 100U	1	
C359	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C360	ECA1EXLV101	E. CAPACITOR 25V 100U	1	
C361	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C362	ECA1EXLV101	E. CAPACITOR 25V 100U	1	
C380, 81	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C382	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C383	ECUV1H682KBN	C. CAPACITOR CH 50V 6800P	1	
C384	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C385, 86	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C387	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C388	ECUV1H682KBN	C. CAPACITOR CH 50V 6800P	1	
C389	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C390	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C391	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C400	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C401-03	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C404-06	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	3	
C407	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C408	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C409-11	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C412	ECUM1E224ZFN	C. CAPACITOR CH 25V 0.22U	1	
C413	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C414	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C415	ECUM1H152KBN	C. CAPACITOR CH 50V 1500P	1	
C416-18	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C419	ECEV1HV4R7Q	E. CAPACITOR CH 50V 4.7U	1	
C420	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C421	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C422	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1	
C423	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C424-27	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	4	
C428, 29	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C430	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C431	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C432-34	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	3	
C450	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C451, 52	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C453, 54	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2	
C455	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C456	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	
C457	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C458, 59	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	2	
C460	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C461	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C462	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C463	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C464	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C465	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C466	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C467	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C468, 69	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C470	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C471	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C472	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C473	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1	
C474, 75	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2	
C476	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C477, 78	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	2	
C479	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C480	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	
C481	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C482	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	
C483	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C484	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C485	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C486	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C487	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C488	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
C489, 90	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C491	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C492	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C493	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
C510	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C511	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C512, 13	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C514	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C515	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C516	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C517-19	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C520	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C521	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C522, 23	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	2	
C524	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C525	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C526	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C527, 28	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C529	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C530-32	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C533	ECEV1AV330Q	E. CAPACITOR CH 10V 33U	1	
C534	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C535	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C536	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C537	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	1	
C538	ECEV1EV330Q	E. CAPACITOR CH 25V 33U	1	
C539	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C600,01	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C602	ECCF1H330JC	C.CAPACITOR 50V 33P	1	
D1,D2	MA157	DIODE	2	
D3,D4	MA8075-H	DIODE	2	
D30,31	MA8030	DIODE	2	
D32	MA8047-H	DIODE	1	
D33-36	MA152K	DIODE	4	
D80-83	MA157	DIODE	4	
D120-23	MA157	DIODE	4	
D160-63	MA157	DIODE	4	
D200,01	MA152K	DIODE	2	
D202	MA8047-H	DIODE	1	
D203	MA152K	DIODE	1	
D204,05	MA8047-H	DIODE	2	
D206-09	MA152K	DIODE	4	
D300-02	LN1251CAL	DIODE	3	
D320,21	MA157	DIODE	2	
D340	MA728	DIODE	1	
D341	MA736	DIODE	1	
D342	MA728	DIODE	1	
D343	MA736	DIODE	1	
D344	MA8039-L	DIODE	1	
D380	MA728	DIODE	1	
D381	MA736	DIODE	1	
D382	MA728	DIODE	1	
D383	MA736	DIODE	1	
D400-05	MA738	DIODE	6	
D406,07	MA8047-H	DIODE	2	
D408-13	MA738	DIODE	6	
D450	MA152K	DIODE	1	
D451-56	MA738	DIODE	6	
D457	MA152K	DIODE	1	
D458-63	MA738	DIODE	6	
D510-13	MA701A	DIODE	4	
D514-19	MA704A	DIODE	6	
FL320,21	VLF1016A470	FILTER	2	
FL510-15	VLF1016A470	FILTER	6	
IC1	TC7WU04F	IC	1	
IC2	UPC4082G2	IC	1	
IC3	TC4052BF	IC	1	
IC30	UPC4082G2	IC	1	
IC31	NJM4580ED	IC	1	
IC32	AD633JR	IC	1	
IC33	UPC4082G2	IC	1	
IC34	MC74HC74AF	IC	1	
IC35	TC7W00F	IC	1	
IC60,61	MC74HC08AF	IC	2	
IC63-66	MC74HC74AF	IC	4	
IC67	MC74HC157AF	IC	1	
IC68	T74HC191AF	IC	1	
IC69	MC74HC32AF	IC	1	
IC70	MC74HC86AF	IC	1	
IC71	MC74HC04AF	IC	1	
IC72	MC74HC74AF	IC	1	
IC73	MC74HC11F	IC	1	
IC74	MC74HC27F	IC	1	
IC80,81	UPC4741G2	IC	2	
IC82	NJM2901M	IC	1	
IC83	MC74HC4050F	IC	1	
IC120,21	UPC4741G2	IC	2	
IC160	NJM2901M	IC	1	
IC161,62	UPC4741G2	IC	2	
IC200	ADG408BR	IC	1	
IC201	AD7896AR	IC	1	
IC202	AD7943BR	IC	1	
IC203	SMP08FS	IC	1	
IC204	MC74HC244AF	IC	1	
IC205	UPC4082G2	IC	1	
IC207	UPC4082G2	IC	1	
IC230	MC68332ACFC2	IC	1	
IC231	TL7705CPSB	IC	1	
IC235	VSI3060	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC236,37	74AC74SJ	IC	2	
IC238,39	TC7WU04F	IC	2	
IC240	74AC08SJ	IC	1	
IC241	MC74HC244AF	IC	1	
IC260,61	Y7C18525SC	IC	2	
IC262	IDT71321A55	IC	1	
IC263,64	SN74S1051NS	IC	2	
IC265	MC74HC175F	IC	1	
IC266	MC74HC164AF	IC	1	
IC267	MC74HC273AF	IC	1	
IC268	MC74HC74AF	IC	1	
IC269	MC74HC86AF	IC	1	
IC280	MC74HCT244AF	IC	1	
IC281	MC74HC151F	IC	1	
IC282	SLA909SF1G	IC	1	
IC300	TE7751	IC	1	
IC301,02	MC74HC244AF	IC	2	
IC303	T74VHCT244F	IC	1	
IC304,05	MC74HC244AF	IC	2	
IC320	SC371025AVFU	IC	1	
IC321	MC14053BF	IC	1	
IC322	MC74HC574AF	IC	1	
IC323	TC7WU04F	IC	1	
IC324	T74VHCU04F	IC	1	
IC325	74AC74SJ	IC	1	
IC326	MC74HC74AF	IC	1	
IC340	TL1451CNS	IC	1	
IC341	UPC393G2	IC	1	
IC342	NJM4580ED	IC	1	
IC400,01	AN3890FBS	IC	2	
IC402	NJM4580ED	IC	1	
IC403	NJM2903M	IC	1	
IC404	NJM4580ED	IC	1	
IC450,51	AN3834K	IC	2	
IC452	UPC4558G2	IC	1	
IC510,11	NJM78L09UA	IC	2	
IC512,13	NJM79L09UA	IC	2	
IC514	XC62AP5002P	IC	1	
IC515,16	XC62AP3002P	IC	2	
IC517	NJM79L05UA	IC	1	
IC600	NJM2903M	IC	1	
IS235	VJS3096640	CONNECTOR (FEMALE)	1	
L230,31	VLQ0576	COIL	2	
L340	VLQ0504331K	COIL 330UH	1	
L341	VLQ0407120M	COIL 12UH	1	
L342	VLQ0504331K	COIL 330UH	1	
L380	VLQ0407120M	COIL 12UH	1	
L381,82	VLQ0504331K	COIL 330UH	2	
L510	VLP0133	COIL	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q1	2SD601A-R	TRANSISTOR	1	
Q2,Q3	2SB709A-R	TRANSISTOR	2	
Q4	2SD601A-R	TRANSISTOR	1	
Q5	2SB709A-R	TRANSISTOR	1	
Q6	2SD601A-R	TRANSISTOR	1	
Q340,41	2SB1174-Q	TRANSISTOR	2	
Q380,81	2SB1174-Q	TRANSISTOR	2	
Q400	PU3210	TRANSISTOR	1	
Q401	PU3110	TRANSISTOR	1	
Q402	PU3210	TRANSISTOR	1	
Q403	PU3110	TRANSISTOR	1	
Q510,11	2SD601A-R	TRANSISTOR	2	
QR1	UN2213	TRANSISTOR-RESISTOR	1	
QR2	UN2113	TRANSISTOR-RESISTOR	1	
QR3	UN2215	TRANSISTOR-RESISTOR	1	
QR4	UN2115	TRANSISTOR-RESISTOR	1	
QR5,R6	UN2213	TRANSISTOR-RESISTOR	2	
QR7,R8	UN2113	TRANSISTOR-RESISTOR	2	
QR30	UN2213	TRANSISTOR-RESISTOR	1	
QR81,82	UN2213	TRANSISTOR-RESISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR83	UN2113	TRANSISTOR-RESISTOR	1	
QR84	UN2213	TRANSISTOR-RESISTOR	1	
QR85	UN2113	TRANSISTOR-RESISTOR	1	
QR120	UN2213	TRANSISTOR-RESISTOR	1	
QR121	UN2113	TRANSISTOR-RESISTOR	1	
QR122	UN2213	TRANSISTOR-RESISTOR	1	
QR123	UN2113	TRANSISTOR-RESISTOR	1	
QR124	UN2213	TRANSISTOR-RESISTOR	1	
QR160	UN2213	TRANSISTOR-RESISTOR	1	
QR161	UN2113	TRANSISTOR-RESISTOR	1	
QR162	UN2213	TRANSISTOR-RESISTOR	1	
QR163	UN2113	TRANSISTOR-RESISTOR	1	
QR164	UN2213	TRANSISTOR-RESISTOR	1	
QR340, 41	UN2111	TRANSISTOR-RESISTOR	2	
QR400	UN2213	TRANSISTOR-RESISTOR	1	
QR401	UN2113	TRANSISTOR-RESISTOR	1	
QR600	UN2217	TRANSISTOR-RESISTOR	1	
QR601	UN2211	TRANSISTOR-RESISTOR	1	
R1-R3	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R4	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R5	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R6	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R7	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R8	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R9, 10	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R11	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R12, 13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R14	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R15	ERJ6GEYG823	M.RESISTOR CH 1/10W 82K	1	
R16	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R17	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R18	ERJ6GEYG823	M.RESISTOR CH 1/10W 82K	1	
R19, 20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R21	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R25-29	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R31	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R34	ERJ6RBD563	M.RESISTOR CH 1/10W 56K	1	
R35	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R36	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R37	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R38, 39	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	2	
R40	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R41	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R42	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R43-45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R46	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R48	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R50	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R51	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R52	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R53	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R54	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R55	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R56-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R60	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R61-77	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	17	
R80, 81	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R82, 83	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R84	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R85	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R86	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R87, 88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R89, 90	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	2	
R91, 92	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R93	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R94	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R95	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R96	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R97	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R98, 99	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R100, 01	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R102, 03	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	2	
R104	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R105	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R106	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R107	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R108	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R109	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R120, 21	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R122, 23	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R126	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R127	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R128, 29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R130, 31	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R132, 33	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R134	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R135	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R136	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R137	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R138	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R139, 40	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R141, 42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R143, 44	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R145	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R146	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R147	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R148	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R149	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R160, 61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R162, 63	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R164	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R165	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R166	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R167	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R168, 69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R170, 71	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R172	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R173	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R174	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R175	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R176	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R177, 78	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R179, 80	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R181, 82	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R183, 84	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R187	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R188	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R189	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R200	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R201, 02	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R203	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R204	ERJ6RBD303	M.RESISTOR CH 1/10W 30K	1	
R205	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R206	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R207	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R208	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R209	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R210	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R211	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R212, 13	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R214	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R215, 16	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R217, 18	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R219	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R220-22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R223	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R232	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R234	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R235-43	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	9	
R244	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R246	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R247	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R248-51	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	4	
R252	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R253	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R254	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R256	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R257	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R259,60	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R261	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R262	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R263,64	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R265	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R266	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R267-69	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R270,71	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R275-78	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R280	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R281,82	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R283-85	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R286,87	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R300	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R301	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R303,04	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R305-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	9	
R314-16	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	3	
R317-19	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R322-24	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R325	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R326	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R327-29	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	3	
R330	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R331	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R332	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R333	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R334	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R336,37	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R338,39	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R340	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R341	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R342	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R343	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R344	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R345	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R346	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R347	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R350	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R351-53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R354	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R355	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R356	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R357	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R358	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R359	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R360	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R361	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R362,63	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R364	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R365	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R366	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R367	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R368	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R369	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R370	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R371	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R372	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R373	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R374,75	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R380	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R381	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R382	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R383	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R384	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R385	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R400,01	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R402	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R403	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R404,05	ERJ12YJR68	M.RESISTOR CH 1/2W 0.68	2	
R406,07	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	2	
R408	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R409	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R410	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R411	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R412	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R413	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R414,15	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R416	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R417	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R418	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R419	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R420	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R421	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R422	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R423	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R424,25	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R426	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R427	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R428,29	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R430,31	ERJ12YJR68	M.RESISTOR CH 1/2W 0.68	2	
R432,33	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R436,37	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R450	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R451	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R452	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R453-55	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R456,57	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R458	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R459	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R460	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R461	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R462	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R463	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R464,65	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R466,67	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R468	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R469	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R470	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R471	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R510	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R511,12	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R513	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R514-17	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R550-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	10	
R600-02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R603-06	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R607-15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R621	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R622-27	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R628	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R629,30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R631,32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R640	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R650,51	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R652	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R653	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R654	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R655	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R656	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
TG510,11	VJR0646	TEST POINT	2	
TP1	VJR0646	TEST POINT	1	
TP2	EYF6CU	TEST POINT	1	
TP30,31	VJR0646	TEST POINT	2	
TP32,33	EYF6CU	TEST POINT	2	
TP34,35	VJR0646	TEST POINT	2	
TP60	VJR0646	TEST POINT	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
TP80-83	VJR0646	TEST POINT	4	
TP120-23	VJR0646	TEST POINT	4	
TP160-63	VJR0646	TEST POINT	4	
TP200	EYF6CU	TEST POINT	1	
TP201	VJR0646	TEST POINT	1	
TP202	EYF6CU	TEST POINT	1	
TP230-34	VJR0646	TEST POINT	5	
TP280	VJR0646	TEST POINT	1	
TP300-02	VJR0646	TEST POINT	3	
TP320, 21	VJR0646	TEST POINT	2	
TP400, 01	VJR0646	TEST POINT	2	
TP450, 51	VJR0646	TEST POINT	2	
X320	VSX0645	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E2	VEP82105G	F1 SERVO P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
C1, C2	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5, C6	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C7	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C8, C9	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C10	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C11, 12	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C13	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C14	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C15	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C30-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C35	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C36-38	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C39	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C40, 41	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	2	
C42, 43	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C60, 61	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C63-74	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	12	
C80, 81	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C83	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C84	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C85, 86	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C88	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C89, 90	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C91	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C92, 93	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C94, 95	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C120, 21	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C123	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C124, 25	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C126	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C127, 28	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C129, 30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C131, 32	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C133, 34	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C135	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C160, 61	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C162	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C163, 64	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C165	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C166, 67	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	
C168, 69	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C170, 71	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C172	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C173, 74	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C175	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C200	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C202, 03	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C204	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C205-07	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C208-10	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	3	
C211	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C212, 13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C214	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C215, 16	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C218	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C230-32	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C233-36	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C237	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C238	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C239	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C240-49	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	10	
C250, 51	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	2	
C260, 61	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C263-70	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	8	
C280-86	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	7	
C300-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C303	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C304-08	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C309	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C320, 21	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C322	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C323	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C324	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C325, 26	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C327, 28	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C330	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C331-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C335, 36	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	2	
C337	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C340	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C341	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C342, 43	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C344	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C345	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C346-48	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C349-53	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C354	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C355	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C356	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C357	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C358	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C359	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C360	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C361	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C362	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C380, 81	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C382	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C383	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C384	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C385, 86	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C387	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C388	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C389	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C390	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C391	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C400	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C401-03	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C404-06	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	3	
C407	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C408	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C409-11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C412	ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C413	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C414	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C415	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C416-18	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C419	ECEV1HV4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C420	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C421	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C422	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C423	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C424-27	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C428,29	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C430	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C431	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C432-34	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C450	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C451,52	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C453,54	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C455	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C456	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C457	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C458,59	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C460	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C461	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C462	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C463	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C464	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C465	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C466	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C467	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C468,69	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C470	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C471	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C472	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C473	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C474,75	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C476	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C477,78	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C479	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C480	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C481	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C482	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C483	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C484	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C485	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C486	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C487	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C488	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C489,90	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C491	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C492	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C493	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C510	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C511	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C512,13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C514	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C515	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C516	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C517-19	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C520	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C521	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C522,23	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	2	
C524	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C525	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C526	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C527,28	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C529	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C530-32	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C533	ECEV1AV330Q	E.CAPACITOR CH 10V 33U	1	
C534	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C535	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C536	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C537	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	1	
C538	ECEV1EV330Q	E.CAPACITOR CH 25V 33U	1	
C539	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C600,01	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C602	ECCF1H330JC	C.CAPACITOR 50V 33P	1	
C603	ECCF1H220JC	C.CAPACITOR 50V 22P	1	
D1,D2	MA157	DIODE	2	
D3,D4	MA8075-H	DIODE	2	
D30,31	MA8030	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D32	MA8047-H	DIODE	1	
D33-36	MA152K	DIODE	4	
D80-83	MA157	DIODE	4	
D120-23	MA157	DIODE	4	
D160-63	MA157	DIODE	4	
D200,01	MA152K	DIODE	2	
D202	MA8047-H	DIODE	1	
D203	MA152K	DIODE	1	
D204,05	MA8047-H	DIODE	2	
D206-09	MA152K	DIODE	4	
D300-02	LN1251CAL	DIODE	3	
D320,21	MA157	DIODE	2	
D340	MA728	DIODE	1	
D341	MA736	DIODE	1	
D342	MA728	DIODE	1	
D343	MA736	DIODE	1	
D344	MA8039-L	DIODE	1	
D380	MA728	DIODE	1	
D381	MA736	DIODE	1	
D382	MA728	DIODE	1	
D383	MA736	DIODE	1	
D400-05	MA738	DIODE	6	
D406,07	MA8047-H	DIODE	2	
D408-13	MA738	DIODE	6	
D450	MA152K	DIODE	1	
D451-56	MA738	DIODE	6	
D457	MA152K	DIODE	1	
D458-63	MA738	DIODE	6	
D510-13	MA701A	DIODE	4	
D514-19	MA704A	DIODE	6	
FL320,21	VLF1016A470	FILTER	2	
FL510-15	VLF1016A470	FILTER	6	
IC1	TC7WU04F	IC	1	
IC2	UPC4082G2	IC	1	
IC3	TC4052BF	IC	1	
IC30	UPC4082G2	IC	1	
IC31	NJM4580ED	IC	1	
IC32	AD633JR	IC	1	
IC33	UPC4082G2	IC	1	
IC34	MC74HC74AF	IC	1	
IC35	TC7W00F	IC	1	
IC60,61	MC74HC08AF	IC	2	
IC63-66	MC74HC74AF	IC	4	
IC67	MC74HC157AF	IC	1	
IC68	T74HC191AF	IC	1	
IC69	MC74HC32AF	IC	1	
IC70	MC74HC86AF	IC	1	
IC71	MC74HC04AF	IC	1	
IC72	MC74HC74AF	IC	1	
IC73	MC74HC11F	IC	1	
IC74	MC74HC27F	IC	1	
IC80,81	UPC4741G2	IC	2	
IC82	NJM2901M	IC	1	
IC83	MC74HC4050F	IC	1	
IC120,21	UPC4741G2	IC	2	
IC160	NJM2901M	IC	1	
IC161,62	UPC4741G2	IC	2	
IC200	ADG408BR	IC	1	
IC201	AD7896AR	IC	1	
IC202	AD7943BR	IC	1	
IC203	SMP08FS	IC	1	
IC204	MC74HC244AF	IC	1	
IC205	UPC4082G2	IC	1	
IC207	UPC4082G2	IC	1	
IC230	MC68332ACFC2	IC	1	
IC231	TL7705CPSB	IC	1	
IC235	VS13061	IC	1	
IC236,37	74AC74SJ	IC	2	
IC238,39	TC7WU04F	IC	2	
IC240	74AC08SJ	IC	1	
IC241	MC74HC244AF	IC	1	
IC260,61	Y7C18525SC	IC	2	
IC262	IDT71321A55	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC263,64	SN74S1051NS	IC	2	
IC265	MC74HC175F	IC	1	
IC266	MC74HC164AF	IC	1	
IC267	MC74HC273AF	IC	1	
IC268	MC74HC74AF	IC	1	
IC269	MC74HC86AF	IC	1	
IC280	MC74HCT244AF	IC	1	
IC281	MC74HC151F	IC	1	
IC282	SLA909SF1G	IC	1	
IC300	TE7751	IC	1	
IC301,02	MC74HC244AF	IC	2	
IC303	T74VHCT244F	IC	1	
IC304,05	MC74HC244AF	IC	2	
IC320	SC371025AVFU	IC	1	
IC321	MC14053BF	IC	1	
IC322	MC74HC574AF	IC	1	
IC323	TC7WU04F	IC	1	
IC324	T74VHCU04F	IC	1	
IC325	74AC74SJ	IC	1	
IC326	MC74HC74AF	IC	1	
IC340	TL1451CNS	IC	1	
IC341	UPC393G2	IC	1	
IC342	NJM4580ED	IC	1	
IC400,01	AN3890FBS	IC	2	
IC402	NJM4580ED	IC	1	
IC403	NJM2903M	IC	1	
IC404	NJM4580ED	IC	1	
IC450,51	AN3834K	IC	2	
IC452	UPC4558G2	IC	1	
IC510,11	NJM78L09UA	IC	2	
IC512,13	NJM79L09UA	IC	2	
IC514	XC62AP5002P	IC	1	
IC515,16	XC62AP3002P	IC	2	
IC517	NJM79L05UA	IC	1	
IC600	NJM2903M	IC	1	
IS235	VJS3096640	CONNECTOR (FEMALE)	1	
L230,31	VLQ0576	COIL	2	
L340	VLQ0504331K	COIL 330UH	1	
L341	VLQ0407120M	COIL 12UH	1	
L342	VLQ0504331K	COIL 330UH	1	
L380	VLQ0407120M	COIL 12UH	1	
L381,82	VLQ0504331K	COIL 330UH	2	
L510	VLP0133	COIL	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q1	2SD601A-R	TRANSISTOR	1	
Q2,Q3	2SB709A-R	TRANSISTOR	2	
Q4	2SD601A-R	TRANSISTOR	1	
Q5	2SB709A-R	TRANSISTOR	1	
Q6	2SD601A-R	TRANSISTOR	1	
Q340,41	2SB1174-Q	TRANSISTOR	2	
Q380,81	2SB1174-Q	TRANSISTOR	2	
Q400	PU3210	TRANSISTOR	1	
Q401	PU3110	TRANSISTOR	1	
Q402	PU3210	TRANSISTOR	1	
Q403	PU3110	TRANSISTOR	1	
Q510,11	2SD601A-R	TRANSISTOR	2	
QR1	UN2213	TRANSISTOR-RESISTOR	1	
QR2	UN2113	TRANSISTOR-RESISTOR	1	
QR3	UN2215	TRANSISTOR-RESISTOR	1	
QR4	UN2115	TRANSISTOR-RESISTOR	1	
QR5,R6	UN2213	TRANSISTOR-RESISTOR	2	
QR7,R8	UN2113	TRANSISTOR-RESISTOR	2	
QR30	UN2213	TRANSISTOR-RESISTOR	1	
QR81,82	UN2213	TRANSISTOR-RESISTOR	2	
QR83	UN2113	TRANSISTOR-RESISTOR	1	
QR84	UN2213	TRANSISTOR-RESISTOR	1	
QR85	UN2113	TRANSISTOR-RESISTOR	1	
QR120	UN2213	TRANSISTOR-RESISTOR	1	
QR121	UN2113	TRANSISTOR-RESISTOR	1	
QR122	UN2213	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR123	UN2113	TRANSISTOR-RESISTOR	1	
QR124	UN2213	TRANSISTOR-RESISTOR	1	
QR160	UN2213	TRANSISTOR-RESISTOR	1	
QR161	UN2113	TRANSISTOR-RESISTOR	1	
QR162	UN2213	TRANSISTOR-RESISTOR	1	
QR163	UN2113	TRANSISTOR-RESISTOR	1	
QR164	UN2213	TRANSISTOR-RESISTOR	1	
QR340,41	UN2111	TRANSISTOR-RESISTOR	2	
QR400	UN2213	TRANSISTOR-RESISTOR	1	
QR401	UN2113	TRANSISTOR-RESISTOR	1	
QR600	UN2217	TRANSISTOR-RESISTOR	1	
QR601	UN2211	TRANSISTOR-RESISTOR	1	
R1-R3	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R4	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R5	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R6	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R7	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R8	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R9,10	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R11	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R12,13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R14	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R15	ERJ6GEYG823	M.RESISTOR CH 1/10W 82K	1	
R16	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R17	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R18	ERJ6GEYG823	M.RESISTOR CH 1/10W 82K	1	
R19,20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R21	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R25-29	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R31	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R34	ERJ6RBD563	M.RESISTOR CH 1/10W 56K	1	
R35	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R36	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R37	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R38,39	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	2	
R40	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R41	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R42	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R43-45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R46	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R48	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R50	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R51	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R52	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R53	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R54	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R55	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R56-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R60	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R61-77	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	17	
R80,81	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R82,83	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R84	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R85	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R86	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R87,88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R89,90	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	2	
R91,92	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R93	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R94	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R95	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R96	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R97	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R98,99	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R100,01	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R102,03	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	2	
R104	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R105	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R106	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R107	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R108	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R109	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R120,21	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R122,23	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R126	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R127	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R128,29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R130,31	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R132,33	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R134	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R135	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R136	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R137	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R138	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R139,40	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R141,42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R143,44	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R145	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R146	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R147	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R148	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R149	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R160,61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R162,63	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	2	
R164	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R165	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R166	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R167	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R168,69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R170,71	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R172	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R173	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R174	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R175	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R176	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R177,78	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	2	
R179,80	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R181,82	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R183,84	ERJ6RED224	M.RESISTOR CH 1/10W 220K	2	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R187	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R188	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R189	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R200	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R201,02	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R203	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R204	ERJ6RBD303	M.RESISTOR CH 1/10W 30K	1	
R205	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R206	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R207	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R208	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R209	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R210	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R211	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R212,13	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R214	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R215,16	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	2	
R217,18	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R219	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R220-22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R223	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R232	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R234	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R235-43	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	9	
R244	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R246	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R247	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R248-51	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	4	
R252	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R253	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R254	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R256	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R257	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R259,60	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R261	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R262	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R263,64	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R265	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R266	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R267-69	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R270,71	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R275-78	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R280	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R281,82	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R283-85	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R286,87	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R300	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R301	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R303,04	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R305-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	9	
R314-16	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	3	
R317-19	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R322-24	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R325	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R326	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R327-29	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	3	
R330	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R331	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R332	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R333	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R334	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R336,37	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R338,39	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R340	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R341	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R342	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R343	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R344	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R345	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R346	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R347	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R350	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R351-53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R354	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R355	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R356	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R357	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R358	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R359	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R360	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R361	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R362,63	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R364	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R365	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R366	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R367	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R368	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R369	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R370	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R371	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R372	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R373	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R374,75	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R380	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R381	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R382	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R383	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R384	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R385	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R400,01	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R402	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R403	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R404,05	ERJ12YJR68	M.RESISTOR CH 1/2W 0.68	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R406,07	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	2	
R408	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R409	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R410	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R411	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R412	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R413	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R414,15	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R416	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R417	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R418	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R419	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R420	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R421	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R422	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R423	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R424,25	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R426	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R427	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R428,29	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R430,31	ERJ12YJR68	M.RESISTOR CH 1/2W 0.68	2	
R432,33	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R436,37	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R450	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R451	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R452	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R453-55	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	3	
R456,57	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R458	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R459	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R460	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R461	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R462	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R463	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R464,65	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R466,67	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R468	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R469	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R470	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R471	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R510	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R511,12	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R513	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R514-17	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R550-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	10	
R600-02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R603-06	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R607-15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R621	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R622-27	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R628	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R629,30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R631,32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R640	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R650,51	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R652	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R653	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R654	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R655	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R656	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
TG510,11	VJR0646	TEST POINT	2	
TP1	VJR0646	TEST POINT	1	
TP2	EYF6CU	TEST POINT	1	
TP30,31	VJR0646	TEST POINT	2	
TP32,33	EYF6CU	TEST POINT	2	
TP34,35	VJR0646	TEST POINT	2	
TP60	VJR0646	TEST POINT	1	
TP80-83	VJR0646	TEST POINT	4	
TP120-23	VJR0646	TEST POINT	4	
TP160-63	VJR0646	TEST POINT	4	
TP200	EYF6CU	TEST POINT	1	
TP201	VJR0646	TEST POINT	1	
TP202	EYF6CU	TEST POINT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP230-34	VJR0646	TEST POINT	5	
TP280	VJR0646	TEST POINT	1	
TP300-02	VJR0646	TEST POINT	3	
TP320,21	VJR0646	TEST POINT	2	
TP400,01	VJR0646	TEST POINT	2	
TP450,51	VJR0646	TEST POINT	2	
X320	VSX0645	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E3	VEP86146M	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D450P
C1	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C10,11	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C13	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C14	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C16-26	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	11	
C27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C32-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C35	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C36,37	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C38,39	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C46	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C49	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C51	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C55	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C56-58	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C59,60	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C65	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C66	ECA12HG682	E.CAPACITOR 6800U	1	
C67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68,69	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C70,71	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C72	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C73	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C74	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C76	ECA12HG682	E.CAPACITOR 6800U	1	
C77,78	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C79	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C81	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C83	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C86,87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C88-90	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C91,92	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C93	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C500,01	ECUV1H120JCN	C.CAPACITOR CH 50V 12P	2	
C502	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C503-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C508-13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C514	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C516-19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C523	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C526,27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C532-35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C537,38	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C543-45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C547	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C548	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C549,50	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C703-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C714	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C715,16	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C717-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C722,23	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C724,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C726	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C727	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C728	ECEV0JV4700	E.CAPACITOR CH6.3V 47U	1	
C729	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C730	ECUV1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C731	ECEV1CV1000	E.CAPACITOR CH 16V 10U	1	
C732	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C733,34	ECEV1EN4R70	E.CAPACITOR CH 25V 4.7U	2	
C735	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C736	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C737	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C738	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C739,40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C741	ECEV1EN4R70	E.CAPACITOR CH 25V 4.7U	1	
C742	ECUV1H120JCN	C.CAPACITOR CH 50V 12P	1	
C743	ECEV1CV1000	E.CAPACITOR CH 16V 10U	1	
C744,45	ECEV1EN4R70	E.CAPACITOR CH 25V 4.7U	2	
C746	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C747-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	15	
C762	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C763	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C764	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C765	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C766	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C767	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C768	ECEV1CV4700	E.CAPACITOR CH 16V 47U	1	
C769	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C770	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C771	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C772,73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C774	ECEV1EN4R70	E.CAPACITOR CH 25V 4.7U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C777-80	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C781,82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C783	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C784	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C785	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C900,01	ECEV1CV4700	E.CAPACITOR CH 16V 47U	2	
C902,03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C904-07	ECEV1CV4700	E.CAPACITOR CH 16V 47U	4	
D1	MA157	DIODE	1	
D2-D5	MA715	DIODE	4	
D8	MA152WK	DIODE	1	
D9	MA3068-H	DIODE	1	
D10	MA3051-H	DIODE	1	
D11	MA3047-M	DIODE	1	
D12	MA3100-M	DIODE	1	
D13	MA3051-H	DIODE	1	
D14	MA3075-M	DIODE	1	
D15	21D004	DIODE	1	
D16	MA3051-H	DIODE	1	
D17	MA157	DIODE	1	
D18-22	MA152WK	DIODE	5	
D25-27	MA152WK	DIODE	3	
D28-43	MA738	DIODE	16	
D44	MA152WK	DIODE	1	
D45-48	MA738	DIODE	4	
D49,50	SN74S1051NS	IC	2	
D51	MA3062-L	DIODE	1	
D52	MA3082M	DIODE	1	
D53	MA3075-M	DIODE	1	
D54	MA738	DIODE	1	
D500	MA152WK	DIODE	1	
D504,05	MA715	DIODE	2	
D506	MA152WK	DIODE	1	
D507	MA715	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D701-06	MA715	DIODE	6	
D709	MA715	DIODE	1	
D711-14	MA157	DIODE	4	
D715	MA152WK	DIODE	1	
D716-19	MA715	DIODE	4	
D720-22	SN74S1051NS	IC	3	
D723,24	MA715	DIODE	2	
FL701,02	VLF1016A470	FILTER	2	
FL900-03	VLF1016A470	FILTER	4	
IC1	M37702S4AFP	IC	1	
IC2	VSI3066	IC	1	
IC3	74F573SJ	IC	1	
IC4	74F138SJ	IC	1	
IC5	74F573SJ	IC	1	
IC6	TL7705CPSB	IC	1	
IC7	MC74HC132AF	IC	1	
IC8	MC74HC04AF	IC	1	
IC9,10	74AC32SJ	IC	2	
IC11,12	74F32SJ	IC	2	
IC13	MC74HC74AF	IC	1	
IC14	74F11SJ	IC	1	
IC15	IDT71321A55	IC	1	
IC16	74F245SJ	IC	1	
IC17	DS1230Y100	IC	1	
IC19,20	74F541SJ	IC	2	
IC23	74F245SJ	IC	1	
IC24	UPD6456T611Y	IC	1	
IC25	74F138SJ	IC	1	
IC26	MB89363BHPF	IC	1	
IC27,28	M54649L	IC	2	
IC29	NJM2901M	IC	1	
IC30	NJM2904M	IC	1	
IC31,32	MC14538BF	IC	2	
IC33	74F32SJ	IC	1	
IC34	74F00SJ	IC	1	
IC35	NJM2901M	IC	1	
IC36,37	TC7S14F	IC	2	
IC500	HD64180ZRP8	IC	1	
IC501,02	MC74HC541AF	IC	2	
IC503	VSI3062	IC	1	
IC504	K6256DLG7L	IC	1	
IC505	IDT71321A55	IC	1	
IC506	MC74HC138AF	IC	1	
IC507	74F32SJ	IC	1	
IC508	MC74HC00AF	IC	1	
IC509	T74HC191AF	IC	1	
IC510	Z84C4310FEC	IC	1	
IC514	MC34051M	IC	1	
IC515	MC1488M	IC	1	
IC516	MC1489AM	IC	1	
IC517	MC14024BF	IC	1	
IC523	MC74HC04AF	IC	1	
IC524	MC14050BF	IC	1	
IC525	SN74LS38NS	IC	1	
IC527	MB89363BPF	IC	1	
IC528,29	MC14021BF	IC	2	
IC530,31	T74HC191AF	IC	2	
IC532	MC74HC574AF	IC	1	
IC701	M37702S4AFP	IC	1	
IC702	VSI3070	IC	1	
IC703	K6256DLG7L	IC	1	
IC704	74F573SJ	IC	1	
IC705,06	74F138SJ	IC	2	
IC707,08	74F32SJ	IC	2	
IC709	74F00SJ	IC	1	
IC710	MN51040VPI	IC	1	
IC711	MC74HC574AF	IC	1	
IC712	74AC32SJ	IC	1	
IC713	74F32SJ	IC	1	
IC714,15	74F541SJ	IC	2	
IC716	74F245SJ	IC	1	
IC717	74F541SJ	IC	1	
IC718	MC14053BF	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC719	NJM4560MD	IC	1	
IC720	NJM2068MD	IC	1	
IC721	UPC319G2	IC	1	
IC722	UPC4741G2	IC	1	
IC723	NJM78L09UA	IC	1	
IC724	NJM79L09UA	IC	1	
IC725,26	NJM084M	IC	2	
IS2	VJS2336A032	CONNECTOR (FEMALE)	1	
IS17	VJS3096628	CONNECTOR (FEMALE)	1	
IS503	VJS2336A032	CONNECTOR (FEMALE)	1	
IS702	VJS2336A032	CONNECTOR (FEMALE)	1	
L1	VLQ0163J270	COIL 27UH	1	
L2	VLQ0319K470	COIL 47UH	1	
L500-03	VLQ0576	COIL	4	
L701	VLQ0163J470	COIL 47UH	1	
L900-03	VLP0133	COIL	4	
LED1-D4	LN1251CAL	DIODE	4	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q3	2SB710A-R	TRANSISTOR	1	
Q4	2SB936A-Q	TRANSISTOR	1	
Q5,Q6	2SD601A-R	TRANSISTOR	2	
Q7,Q8	2SB1073-R	TRANSISTOR	2	
Q9	2SD601A-R	TRANSISTOR	1	
Q10	2SB709A-R	TRANSISTOR	1	
Q11,12	2SD1119-R	TRANSISTOR	2	
Q13	2SB709A-R	TRANSISTOR	1	
Q14	2SD601A-R	TRANSISTOR	1	
Q15,16	2SB1073-R	TRANSISTOR	2	
Q17	2SD601A-R	TRANSISTOR	1	
Q18	2SB709A-R	TRANSISTOR	1	
Q19,20	2SD1119-R	TRANSISTOR	2	
Q21	2SB709A-R	TRANSISTOR	1	
Q22	2SD601A-R	TRANSISTOR	1	
Q23,24	2SB1175-Q	TRANSISTOR	2	
Q25	2SD601A-R	TRANSISTOR	1	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD1747PQY	TRANSISTOR	2	
Q29	2SB709A-R	TRANSISTOR	1	
Q30	2SD601A-R	TRANSISTOR	1	
Q31,32	2SB1073-R	TRANSISTOR	2	
Q33	2SD601A-R	TRANSISTOR	1	
Q34	2SB709A-R	TRANSISTOR	1	
Q35,36	2SD1119-R	TRANSISTOR	2	
Q37	2SB709A-R	TRANSISTOR	1	
Q38	2SD601A-R	TRANSISTOR	1	
Q39	2SB1175-Q	TRANSISTOR	1	
Q701-03	2SD601A-R	TRANSISTOR	3	
Q704,05	2SB709A-R	TRANSISTOR	2	
QR3-10	UN2213	TRANSISTOR-RESISTOR	8	
QR11-16	UN2214	TRANSISTOR-RESISTOR	6	
QR17	UN2213	TRANSISTOR-RESISTOR	1	
QR18-26	UN2214	TRANSISTOR-RESISTOR	9	
QR27,28	UN2113	TRANSISTOR-RESISTOR	2	
QR29,30	UN2214	TRANSISTOR-RESISTOR	2	
QR31,32	UN2113	TRANSISTOR-RESISTOR	2	
QR33,34	UN2214	TRANSISTOR-RESISTOR	2	
QR35,36	UN2113	TRANSISTOR-RESISTOR	2	
QR37,38	UN2213	TRANSISTOR-RESISTOR	2	
QR39,40	UN2113	TRANSISTOR-RESISTOR	2	
QR41	UN2213	TRANSISTOR-RESISTOR	1	
QR42	UN2113	TRANSISTOR-RESISTOR	1	
QR43	UN2213	TRANSISTOR-RESISTOR	1	
QR701-03	UN221L	TRANSITOR-RESISTOR	3	
QR704,05	UN2214	TRANSISTOR-RESISTOR	2	
R1-R5	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R6-10	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R11,12	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R13,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R16	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R17	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R18,19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R21,22	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R23,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R25,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R27,28	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33-35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R38,39	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R43	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R44	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R46	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R54,55	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R56	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R57	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R58-61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R63-70	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R71,72	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R73,74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R75	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R76,77	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R82	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R83	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R84-88	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	5	
R90-95	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R96	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R97	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R100	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R101,02	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R103,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R105	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R106	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109,10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R111,12	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R113	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R114	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117,18	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R119,20	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R121	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R122	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125,26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R127,28	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R129-37	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	9	
R138,39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R141,42	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R144	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R145-47	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R148	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R150	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R151	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R152	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R153	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R154	ERX1SJ1R0	M.RESISTOR 1W 1.0	1	
R155	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R156	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R157	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R158	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R159	ERG1SJ220	M.RESISTOR 1W 22	1	
R160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R161	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R162,63	ERJ8GCYG151	M.RESISTOR CH 1/8W 150	2	
R164,65	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R166	ERJ8GCYG152	M.RESISTOR CH 1/8W 1.5K	1	
R167-69	ERJ8GCYG681	M.RESISTOR CH 1/8W 680	3	
R170	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R171	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R172,73	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R174-81	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R182	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R184	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R187-90	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	4	
R191	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R192	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R193,94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R195	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R196,97	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R198	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R199,00	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R201	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R202	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R203,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R206	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R207,08	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R210,11	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R212	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R213,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R215	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R216,17	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R218	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R219,20	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R221	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R222	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R223,24	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R225	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R226	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R227,28	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R229	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R230,31	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R232	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R233,34	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R235	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R236,37	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R238	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R239,40	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R241	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R242	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R243,44	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R246	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R247,48	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R249	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R250,51	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R252	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R253,54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R255	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R256,57	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R258	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R259,60	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R261	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R262	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R263	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R266-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R271	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R273	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R275	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R277	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R281	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R284,85	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R288	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R290	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R291	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R292,93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R294	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R295	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R296	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R297	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R298	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R299	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R304-15	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	12	
R316,17	ERG1SJ100	M.RESISTOR 1W 10	2	
R318	ERX1SJ6R2	M.RESISTOR 1W 6.2	1	
R319	ERG1SJ100	M.RESISTOR 1W 10	1	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R329,30	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R332	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R333	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R334	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R335	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R336	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R337,38	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R341	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R342	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R346	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R347	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349-62	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	14	
R363,64	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R365	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R366	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R500	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R501	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R502,03	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R504-11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R512	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R513,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R517	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R518,19	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R520	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R529-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R532,33	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R534	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R542	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R545	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R546	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R548,49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R550,51	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R554-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R580	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R585	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R598	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R599	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R606,07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R608	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R610-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R618-20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R621-28	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R630	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R633	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R635	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R637	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R640	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R641	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R702	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R705-10	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	6	
R711-16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	6	
R717	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R718	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R719,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R721,22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R723-26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R727	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R728-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R732-34	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R735	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R736	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R737	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R738	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R739,40	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R741, 42	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	2	
R743, 44	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	2	
R745, 46	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	2	
R747	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R748	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R749, 50	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R751	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R752, 53	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R754	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R755	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R756-59	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	4	
R760	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R762	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R764, 65	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R766	ERJ6GEYG105	M. RESISTOR CH 1/10W 1M	1	
R767-69	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	3	
R770	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R771	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R772	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R773	ERJ6GEYG562	M. RESISTOR CH 1/10W 5.6K	1	
R774	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	
R775, 76	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	2	
R777	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R778-81	ERJ6RBD332	M. RESISTOR CH 1/10W 3.3K	4	
R782	ERJ6RED470	M. RESISTOR CH 1/10W 47	1	
R783	ERJ6RBD562	M. RESISTOR CH 1/10W 5.6K	1	
R784	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R785	ERJ6RBD562	M. RESISTOR CH 1/10W 5.6K	1	
R786	ERJ6RED820	M. RESISTOR CH 1/10W 82	1	
R787	ERJ6RED470	M. RESISTOR CH 1/10W 47	1	
R788	ERJ6RBD562	M. RESISTOR CH 1/10W 5.6K	1	
R789	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R790	ERJ6RBD123	M. RESISTOR CH 1/10W 12K	1	
R791	ERJ6RBD683	M. RESISTOR CH 1/10W 68K	1	
R792	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	1	
R793	ERJ6RBD333	M. RESISTOR CH 1/10W 33K	1	
R794, 95	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R796	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R797, 98	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	2	
R799	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R800, 01	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R802	ERJ6RBD103	M. RESISTOR CH 1/10W 10K	1	
R803, 04	ERJ6RBD102	M. RESISTOR CH 1/10W 1K	2	
R805-08	ERJ6RBD222	M. RESISTOR CH 1/10W 2.2K	4	
R809	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	1	
R810	ERJ6GEYG104	M. RESISTOR CH 1/10W 100K	1	
R811, 12	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R813	ERJ6GEYG824	M. RESISTOR CH 1/10W 820K	1	
R814	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R815	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R816-39	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	24	
R840-47	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	8	
R848-56	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	9	
R857	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R858, 59	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R860-62	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	3	
R863, 64	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R865	ERJ6RBD562	M. RESISTOR CH 1/10W 5.6K	1	
R866	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R867	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R868	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R869	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R870	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R871, 72	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R873	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R874, 75	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R876	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R877, 78	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	2	
R879, 80	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	
R881	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R882, 83	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	2	
R884	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R885	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	1	
R886	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	
R887, 88	ERJ6GEYG394	M. RESISTOR CH 1/10W 390K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R890	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	
R891	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R892	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R893	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R894	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R895	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R900-03	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	4	
SW501	VSS0367-08B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TG701	EYF6CU	TEST POINT	1	
TP8	EYF6CU	TEST POINT	1	
VC1	VCV0049	TRIMMER	1	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
X500	VSX0641	CRYSTAL OSCILLATOR	1	
X701	VSX0465	CRYSTAL OSCILLATOR	1	
X702	VSX0498	CRYSTAL OSCILLATOR	1	
X703	VSX0614	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E3	VEP86146N	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D450E
C1	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C9	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C10, 11	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	2	
C12	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C13	ECQB1H104JF	P. CAPACITOR 50V 0.1U	1	
C14	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U	1	
C15	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C16-26	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	11	
C27	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C29	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C30	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C32-34	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C35	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C36, 37	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C38, 39	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C46	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C47	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C49	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C51	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C53	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C55	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C56-58	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C59, 60	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
C65	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C66	ECA12HG682	E. CAPACITOR 6800U	1	
C67	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C68, 69	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	2	
C70, 71	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C72	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	
C73	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C74	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C76	ECA12HG682	E. CAPACITOR 6800U	1	
C77, 78	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C79	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C81	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	1	
C83	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C86, 87	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C88-90	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	3	
C91, 92	ECUM1C105ZFN	C. CAPACITOR CH 16V 1U	2	
C93	ECEV1CV100Q	E. CAPACITOR CH 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C500,01	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	2	
C502	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C503-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C508-13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C514	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C516-19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C523	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C526,27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C532-35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C537,38	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C543-45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C547	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C548	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C549,50	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C703-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C714	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C715,16	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C717-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C722,23	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C724,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C726	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C727	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C728	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C729	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C730	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C731	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C732	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C733,34	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C735	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C736	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C737	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C738	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C739,40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C741	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C742	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C743	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C744,45	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C746	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C747-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	15	
C762	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C763	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C764	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C765	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C766	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C767	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C768	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C769	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C770	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C771	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C772,73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C774	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C777-80	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C781,82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C783	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C784	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C785	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C900,01	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C902,03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C904-07	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	4	
D1	MA157	DIODE	1	
D2-D5	MA715	DIODE	4	
D8	MA152WK	DIODE	1	
D9	MA3068-H	DIODE	1	
D10	MA3051-H	DIODE	1	
D11	MA3047-M	DIODE	1	
D12	MA3100-M	DIODE	1	
D13	MA3051-H	DIODE	1	
D14	MA3075-M	DIODE	1	
D15	21DQ04	DIODE	1	
D16	MA3051-H	DIODE	1	
D17	MA157	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D18-22	MA152WK	DIODE	5	
D25-27	MA152WK	DIODE	3	
D28-43	MA738	DIODE	16	
D44	MA152WK	DIODE	1	
D45-48	MA738	DIODE	4	
D49,50	SN74S1051NS	IC	2	
D51	MA3062-L	DIODE	1	
D52	MA3082M	DIODE	1	
D53	MA3075-M	DIODE	1	
D54	MA738	DIODE	1	
D500	MA152WK	DIODE	1	
D504,05	MA715	DIODE	2	
D506	MA152WK	DIODE	1	
D507	MA715	DIODE	1	
D701-06	MA715	DIODE	6	
D709	MA715	DIODE	1	
D711-14	MA157	DIODE	4	
D715	MA152WK	DIODE	1	
D716-19	MA715	DIODE	4	
D720-22	SN74S1051NS	IC	3	
D723,24	MA715	DIODE	2	
FL701,02	VLF1016A470	FILTER	2	
FL900-03	VLF1016A470	FILTER	4	
IC1	M37702S4AFP	IC	1	
IC2	VSI3067	IC	1	
IC3	74F573SJ	IC	1	
IC4	74F138SJ	IC	1	
IC5	74F573SJ	IC	1	
IC6	TL7705CPSB	IC	1	
IC7	MC74HC132AF	IC	1	
IC8	MC74HC04AF	IC	1	
IC9,10	74AC32SJ	IC	2	
IC11,12	74F32SJ	IC	2	
IC13	MC74HC74AF	IC	1	
IC14	74F11SJ	IC	1	
IC15	IDT71321A55	IC	1	
IC16	74F245SJ	IC	1	
IC17	DS1230Y100	IC	1	
IC19,20	74F541SJ	IC	2	
IC23	74F245SJ	IC	1	
IC24	UPD6456T611Y	IC	1	
IC25	74F138SJ	IC	1	
IC26	MB89363BHPF	IC	1	
IC27,28	M54649L	IC	2	
IC29	NJM2901M	IC	1	
IC30	NJM2904M	IC	1	
IC31,32	MC14538BF	IC	2	
IC33	74F32SJ	IC	1	
IC34	74F00SJ	IC	1	
IC35	NJM2901M	IC	1	
IC36,37	TC7S14F	IC	2	
IC500	HD64180ZRP8	IC	1	
IC501,02	MC74HC541AF	IC	2	
IC503	VSI3063	IC	1	
IC504	K6256DLG7L	IC	1	
IC505	IDT71321A55	IC	1	
IC506	MC74HC138AF	IC	1	
IC507	74F32SJ	IC	1	
IC508	MC74HC00AF	IC	1	
IC509	T74HC191AF	IC	1	
IC510	Z84C4310FEC	IC	1	
IC514	MC34051M	IC	1	
IC515	MC1488M	IC	1	
IC516	MC1489AM	IC	1	
IC517	MC14024BF	IC	1	
IC523	MC74HC04AF	IC	1	
IC524	MC14050BF	IC	1	
IC525	SN74LS38NS	IC	1	
IC527	MB89363BPF	IC	1	
IC528,29	MC14021BF	IC	2	
IC530,31	T74HC191AF	IC	2	
IC532	MC74HC574AF	IC	1	
IC701	M37702S4AFP	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC702	VSI3071	IC	1	
IC703	K6256DLG7L	IC	1	
IC704	74F573SJ	IC	1	
IC705,06	74F138SJ	IC	2	
IC707,08	74F32SJ	IC	2	
IC709	74F00SJ	IC	1	
IC710	MN51040VPI	IC	1	
IC711	MC74HC574AF	IC	1	
IC712	74AC32SJ	IC	1	
IC713	74F32SJ	IC	1	
IC714,15	74F541SJ	IC	2	
IC716	74F245SJ	IC	1	
IC717	74F541SJ	IC	1	
IC718	MC14053BF	IC	1	
IC719	NJM4560MD	IC	1	
IC720	NJM2068MD	IC	1	
IC721	UPC319G2	IC	1	
IC722	UPC4741G2	IC	1	
IC723	NJM78L09UA	IC	1	
IC724	NJM79L09UA	IC	1	
IC725,26	NJM084M	IC	2	
IS2	VJS2336A032	CONNECTOR (FEMALE)	1	
IS17	VJS3096628	CONNECTOR (FEMALE)	1	
IS503	VJS2336A032	CONNECTOR (FEMALE)	1	
IS702	VJS2336A032	CONNECTOR (FEMALE)	1	
L1	VLQ0163J270	COIL 27UH	1	
L2	VLQ0319K470	COIL 47UH	1	
L500-03	VLQ0576	COIL	4	
L701	VLQ0163J470	COIL 47UH	1	
L900-03	VLP0133	COIL	4	
LED1-D4	LN1251CAL	DIODE	4	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q3	2SB710A-R	TRANSISTOR	1	
Q4	2SB936A-Q	TRANSISTOR	1	
Q5,06	2SD601A-R	TRANSISTOR	2	
Q7,Q8	2SB1073-R	TRANSISTOR	2	
Q9	2SD601A-R	TRANSISTOR	1	
Q10	2SB709A-R	TRANSISTOR	1	
Q11,12	2SD1119-R	TRANSISTOR	2	
Q13	2SB709A-R	TRANSISTOR	1	
Q14	2SD601A-R	TRANSISTOR	1	
Q15,16	2SB1073-R	TRANSISTOR	2	
Q17	2SD601A-R	TRANSISTOR	1	
Q18	2SB709A-R	TRANSISTOR	1	
Q19,20	2SD1119-R	TRANSISTOR	2	
Q21	2SB709A-R	TRANSISTOR	1	
Q22	2SD601A-R	TRANSISTOR	1	
Q23,24	2SB1175-Q	TRANSISTOR	2	
Q25	2SD601A-R	TRANSISTOR	1	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD1747PQY	TRANSISTOR	2	
Q29	2SB709A-R	TRANSISTOR	1	
Q30	2SD601A-R	TRANSISTOR	1	
Q31,32	2SB1073-R	TRANSISTOR	2	
Q33	2SD601A-R	TRANSISTOR	1	
Q34	2SB709A-R	TRANSISTOR	1	
Q35,36	2SD1119-R	TRANSISTOR	2	
Q37	2SB709A-R	TRANSISTOR	1	
Q38	2SD601A-R	TRANSISTOR	1	
Q39	2SB1175-Q	TRANSISTOR	1	
Q701-03	2SD601A-R	TRANSISTOR	3	
Q704,05	2SB709A-R	TRANSISTOR	2	
QR3-10	UN2213	TRANSISTOR-RESISTOR	8	
QR11-16	UN2214	TRANSISTOR-RESISTOR	6	
QR17	UN2213	TRANSISTOR-RESISTOR	1	
QR18-26	UN2214	TRANSISTOR-RESISTOR	9	
QR27,28	UN2113	TRANSISTOR-RESISTOR	2	
QR29,30	UN2214	TRANSISTOR-RESISTOR	2	
QR31,32	UN2113	TRANSISTOR-RESISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR33,34	UN2214	TRANSISTOR-RESISTOR	2	
QR35,36	UN2113	TRANSISTOR-RESISTOR	2	
QR37,38	UN2213	TRANSISTOR-RESISTOR	2	
QR39,40	UN2113	TRANSISTOR-RESISTOR	2	
QR41	UN2213	TRANSISTOR-RESISTOR	1	
QR42	UN2113	TRANSISTOR-RESISTOR	1	
QR43	UN2213	TRANSISTOR-RESISTOR	1	
QR701-03	UN221L	TRANSITOR-RESISTOR	3	
QR704,05	UN2214	TRANSISTOR-RESISTOR	2	
R1-R5	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R6-10	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R11,12	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R13,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R16	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R17	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R18,19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R21,22	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R23,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R25,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R27,28	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33-35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R38,39	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R43	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R44	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R46	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R54,55	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R56	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R57	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R58-61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R63-70	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R71,72	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R73,74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R75	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R76,77	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R82	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R83	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R84-87	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R89	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R90-95	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R96	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R97	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R100	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R101,02	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R103,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R105	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R106	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109,10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R111,12	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R113	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R114	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117,18	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R119,20	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R121	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R122	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125,26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R127,28	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R129-37	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	9	
R138,39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R141,42	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R144	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R145-47	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R148	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R150	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R151	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R152	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R153	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R154	ERX1SJ1R0	M.RESISTOR 1W 1.0	1	
R155	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R156	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R157	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R158	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R159	ERG1SJ220	M.RESISTOR 1W 22	1	
R160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R161	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R162,63	ERJ8GCYG151	M.RESISTOR CH 1/8W 150	2	
R164,65	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R166	ERJ8GCYG152	M.RESISTOR CH 1/8W 1.5K	1	
R167-69	ERJ8GCYG681	M.RESISTOR CH 1/8W 680	3	
R170	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R171	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R172,73	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R174-81	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R182	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R184	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R187-90	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	4	
R191	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R192	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R193,94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R195	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R196,97	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R198	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R199,00	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R201	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R202	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R203,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R206	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R207,08	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R210,11	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R212	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R213,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R215	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R216,17	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R218	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R219,20	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R221	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R222	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R223,24	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R225	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R226	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R227,28	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R229	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R230,31	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R232	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R233,34	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R235	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R236,37	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R238	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R239,40	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R241	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R242	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R243,44	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R246	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R247,48	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R249	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R250,51	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R252	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R253,54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R255	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R256,57	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R258	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R259,60	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R261	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R262	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R263	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R266-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R271	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R273	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R275	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R277	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R281	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R284,85	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R288	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R290	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R291	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R292,93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R294	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R295	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R296	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R297	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R298	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R299	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R304-15	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	12	
R316,17	ERG1SJ100	M.RESISTOR 1W 10	2	
R318	ERX1SJ6R2	M.RESISTOR 1W 6.2	1	
R319	ERG1SJ100	M.RESISTOR 1W 10	1	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R329,30	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R332	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R333	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R334	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R335	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R336	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R337,38	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R341	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R342	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R346	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R347	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349-62	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	14	
R363,64	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R365	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R366	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R500	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R501	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R502,03	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R504-11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R512	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R513,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R517	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R518,19	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R520	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R529-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R532,33	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R534	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R542	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R545	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R546	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R548,49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R550,51	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R554-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R580	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R585	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R598	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R599	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R606,07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R608	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R610-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R618-20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R621-28	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R630	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R633	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R635	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R637	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R640	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R641	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R702	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R705-10	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	6	
R711-16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	6	
R717	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R718	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R719,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R721,22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R723-26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R727	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R728-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R732-34	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R735	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R736	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R737	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R738	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R739,40	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R741,42	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R743,44	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R745,46	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R747	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R748	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R749,50	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R751	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R752,53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R754	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R755	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R756-59	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R762	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R764,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R766	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R767-69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R770	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R771	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R772	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R773	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R774	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R775,76	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R777	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R778-81	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	4	
R782	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R783	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R784	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R785	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R786	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R787	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R788	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R789	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R790	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R791	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R792	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R793	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R794,95	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R796	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R797,98	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R799	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R800,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R802	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R803,04	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R805-08	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	4	
R809	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R810	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R811,12	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R813	ERJ6GEYG824	M.RESISTOR CH 1/10W 820K	1	
R814	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R815	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R816-39	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	24	
R840-47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R848-56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R857	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R858,59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R860-62	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R863,64	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R865	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R866	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R867	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R868	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R869	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R870	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R871,72	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R873	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R874,75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R876	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R877,78	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R879,80	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R881	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R882,83	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R884	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R885	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R886	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R887,88	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R890	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R891	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R892	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R893	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R894	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R895	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R900-03	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
SW501	VSS0367-08B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TG701	EYF6CU	TEST POINT	1	
TP8	EYF6CU	TEST POINT	1	
VC1	VCV0049	TRIMMER	1	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
X500	VSX0641	CRYSTAL OSCILLATOR	1	
X701	VSX0465	CRYSTAL OSCILLATOR	1	
X702	VSX0498	CRYSTAL OSCILLATOR	1	
X703	VSX0615	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E2	VEP86146P	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D440P
C1	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C10,11	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C13	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C14	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C16-26	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	11	
C27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C32-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C35	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C36,37	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C38,39	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C46	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C49	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C51	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C55	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C56-58	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C59,60	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C65	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C66	ECA12HG682	E.CAPACITOR 6800U	1	
C67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C68,69	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C70,71	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C72	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C73	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C74	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C76	ECA12HG682	E.CAPACITOR 6800U	1	
C77,78	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C79	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C81	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C83	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C86,87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C88-90	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C91,92	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C93	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C500,01	ECUV1H120JCN	C.CAPACITOR CH 50V 12P	2	
C502	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C503-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C508-13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C514	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C516-19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C523	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C526,27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C532-35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C537,38	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C543-45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C547	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C548	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C549,50	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C703-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C714	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C715,16	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C717-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C722,23	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C724,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C726	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C727	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C728	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C729	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C730	ECUV1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C731	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C732	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C733,34	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C735	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C736	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C737	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C738	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C739,40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C741	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C742	ECUV1H120JCN	C.CAPACITOR CH 50V 12P	1	
C743	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C744,45	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C746	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C747-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	15	
C762	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C763	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C764	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C765	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C766	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C767	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C768	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C769	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C770	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C771	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C772,73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C774	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C777-80	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C781,82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C783	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C784	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C785	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C900,01	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C902,03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C904-07	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	4	
D1	MA157	DIODE	1	
D2-D5	MA715	DIODE	4	
D8	MA152WK	DIODE	1	
D9	MA3068-H	DIODE	1	
D10	MA3051-H	DIODE	1	
D11	MA3047-M	DIODE	1	
D12	MA3100-M	DIODE	1	
D13	MA3051-H	DIODE	1	
D14	MA3075-M	DIODE	1	
D15	21DQ04	DIODE	1	
D16	MA3051-H	DIODE	1	
D17	MA157	DIODE	1	
D18-22	MA152WK	DIODE	5	
D25-27	MA152WK	DIODE	3	
D28-43	MA738	DIODE	16	
D44	MA152WK	DIODE	1	
D45-48	MA738	DIODE	4	
D49,50	SN74S1051NS	IC	2	
D51	MA3062-L	DIODE	1	
D52	MA3082M	DIODE	1	
D53	MA3075-M	DIODE	1	
D54	MA738	DIODE	1	
D500	MA152WK	DIODE	1	
D504,05	MA715	DIODE	2	
D506	MA152WK	DIODE	1	
D507	MA715	DIODE	1	
D701-06	MA715	DIODE	6	
D709	MA715	DIODE	1	
D711-14	MA157	DIODE	4	
D715	MA152WK	DIODE	1	
D716-19	MA715	DIODE	4	
D720-22	SN74S1051NS	IC	3	
D723,24	MA715	DIODE	2	
FL701,02	VLF1016A470	FILTER	2	
FL900-03	VLF1016A470	FILTER	4	
IC1	M37702S4AFP	IC	1	
IC2	VSI3068	IC	1	
IC3	74F573SJ	IC	1	
IC4	74F138SJ	IC	1	
IC5	74F573SJ	IC	1	
IC6	TL7705CPSB	IC	1	
IC7	MC74HC132AF	IC	1	
IC8	MC74HC04AF	IC	1	
IC9,10	74AC32SJ	IC	2	
IC11,12	74F32SJ	IC	2	
IC13	MC74HC74AF	IC	1	
IC14	74F11SJ	IC	1	
IC15	IDT71321A55	IC	1	
IC16	74F245SJ	IC	1	
IC17	DS1230Y100	IC	1	
IC19,20	74F541SJ	IC	2	
IC23	74F245SJ	IC	1	
IC24	UPD6456T611Y	IC	1	
IC25	74F138SJ	IC	1	
IC26	MB89363BHPF	IC	1	
IC27,28	M54649L	IC	2	
IC29	NJM2901M	IC	1	
IC30	NJM2904M	IC	1	
IC31,32	MC14538BF	IC	2	
IC33	74F32SJ	IC	1	
IC34	74F00SJ	IC	1	
IC35	NJM2901M	IC	1	
IC36,37	TC7S14F	IC	2	
IC500	HD64180ZRP8	IC	1	
IC501,02	MC74HC541AF	IC	2	
IC503	VSI3064	IC	1	
IC504	K6256DLG7L	IC	1	
IC505	IDT71321A55	IC	1	
IC506	MC74HC138AF	IC	1	
IC507	74F32SJ	IC	1	
IC508	MC74HC00AF	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC509	T74HC191AF	IC	1	
IC510	Z84C4310FEC	IC	1	
IC514	MC34051M	IC	1	
IC515	MC1488M	IC	1	
IC516	MC1489AM	IC	1	
IC517	MC14024BF	IC	1	
IC523	MC74HC04AF	IC	1	
IC524	MC14050BF	IC	1	
IC525	SN74LS38NS	IC	1	
IC527	MB89363BPF	IC	1	
IC528,29	MC14021BF	IC	2	
IC530,31	T74HC191AF	IC	2	
IC532	MC74HC574AF	IC	1	
IC701	M37702S4AFP	IC	1	
IC702	VSI3070	IC	1	
IC703	K6256DLG7L	IC	1	
IC704	74F573SJ	IC	1	
IC705,06	74F138SJ	IC	2	
IC707,08	74F32SJ	IC	2	
IC709	74F00SJ	IC	1	
IC710	MN51040VPI	IC	1	
IC711	MC74HC574AF	IC	1	
IC712	74AC32SJ	IC	1	
IC713	74F32SJ	IC	1	
IC714,15	74F541SJ	IC	2	
IC716	74F245SJ	IC	1	
IC717	74F541SJ	IC	1	
IC718	MC14053BF	IC	1	
IC719	NJM4560MD	IC	1	
IC720	NJM2068MD	IC	1	
IC721	UPC319G2	IC	1	
IC722	UPC4741G2	IC	1	
IC723	NJM78L09UA	IC	1	
IC724	NJM79L09UA	IC	1	
IC725,26	NJM084M	IC	2	
IS2	VJS2336A032	CONNECTOR (FEMALE)	1	
IS17	VJS3096628	CONNECTOR (FEMALE)	1	
IS503	VJS2336A032	CONNECTOR (FEMALE)	1	
IS702	VJS2336A032	CONNECTOR (FEMALE)	1	
L1	VLQ0163J270	COIL 27UH	1	
L2	VLQ0319K470	COIL 47UH	1	
L500-03	VLQ0576	COIL	4	
L701	VLQ0163J470	COIL 47UH	1	
L900-03	VLP0133	COIL	4	
LED1-D4	LN1251CAL	DIODE	4	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q3	2SB710A-R	TRANSISTOR	1	
Q4	2SB936A-Q	TRANSISTOR	1	
Q5,06	2SD601A-R	TRANSISTOR	2	
Q7,Q8	2SB1073-R	TRANSISTOR	2	
Q9	2SD601A-R	TRANSISTOR	1	
Q10	2SB709A-R	TRANSISTOR	1	
Q11,12	2SD1119-R	TRANSISTOR	2	
Q13	2SB709A-R	TRANSISTOR	1	
Q14	2SD601A-R	TRANSISTOR	1	
Q15,16	2SB1073-R	TRANSISTOR	2	
Q17	2SD601A-R	TRANSISTOR	1	
Q18	2SB709A-R	TRANSISTOR	1	
Q19,20	2SD1119-R	TRANSISTOR	2	
Q21	2SB709A-R	TRANSISTOR	1	
Q22	2SD601A-R	TRANSISTOR	1	
Q23,24	2SB1175-Q	TRANSISTOR	2	
Q25	2SD601A-R	TRANSISTOR	1	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD1747PQY	TRANSISTOR	2	
Q29	2SB709A-R	TRANSISTOR	1	
Q30	2SD601A-R	TRANSISTOR	1	
Q31,32	2SB1073-R	TRANSISTOR	2	
Q33	2SD601A-R	TRANSISTOR	1	
Q34	2SB709A-R	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q35,36	2SD1119-R	TRANSISTOR	2	
Q37	2SB709A-R	TRANSISTOR	1	
Q38	2SD601A-R	TRANSISTOR	1	
Q39	2SB1175-Q	TRANSISTOR	1	
Q701-03	2SD601A-R	TRANSISTOR	3	
Q704,05	2SB709A-R	TRANSISTOR	2	
QR3-10	UN2213	TRANSISTOR-RESISTOR	8	
QR11-16	UN2214	TRANSISTOR-RESISTOR	6	
QR17	UN2213	TRANSISTOR-RESISTOR	1	
QR18-26	UN2214	TRANSISTOR-RESISTOR	9	
QR27,28	UN2113	TRANSISTOR-RESISTOR	2	
QR29,30	UN2214	TRANSISTOR-RESISTOR	2	
QR31,32	UN2113	TRANSISTOR-RESISTOR	2	
QR33,34	UN2214	TRANSISTOR-RESISTOR	2	
QR35,36	UN2113	TRANSISTOR-RESISTOR	2	
QR37,38	UN2213	TRANSISTOR-RESISTOR	2	
QR39,40	UN2113	TRANSISTOR-RESISTOR	2	
QR41	UN2213	TRANSISTOR-RESISTOR	1	
QR42	UN2113	TRANSISTOR-RESISTOR	1	
QR43	UN2213	TRANSISTOR-RESISTOR	1	
QR701-03	UN221L	TRANSITOR-RESISTOR	3	
QR704,05	UN2214	TRANSISTOR-RESISTOR	2	
R1-R5	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R6-10	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R11,12	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R13,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R16	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R17	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R18,19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R21,22	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R23,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R25,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R27,28	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33-35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R38,39	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R43	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R44	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R46	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R54,55	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R56	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R57	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R58-61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R63-70	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R71,72	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R73,74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R75	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R76,77	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R82	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R83	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R84-88	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	5	
R90-95	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R96	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R97	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R100	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R101,02	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R103,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R105	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R106	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109,10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R111,12	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R113	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R114	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117,18	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R119,20	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R121	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R122	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125,26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R127,28	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R129-37	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	9	
R138,39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R141,42	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R144	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R145-47	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R148	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R150	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R151	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R152	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R153	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R154	ERX1SJ1R0	M.RESISTOR 1W 1.0	1	
R155	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R156	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R157	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R158	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R159	ERG1SJ220	M.RESISTOR 1W 22	1	
R160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R161	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R162,63	ERJ8GCYG151	M.RESISTOR CH 1/8W 150	2	
R164,65	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R166	ERJ8GCYG152	M.RESISTOR CH 1/8W 1.5K	1	
R167-69	ERJ8GCYG681	M.RESISTOR CH 1/8W 680	3	
R170	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R171	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R172,73	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R174-81	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R182	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R184	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R187-90	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	4	
R191	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R192	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R193,94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R195	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R196,97	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R198	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R199,00	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R201	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R202	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R203,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R206	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R207,08	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R210,11	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R212	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R213,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R215	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R216,17	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R218	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R219,20	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R221	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R222	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R223,24	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R225	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R226	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R227,28	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R229	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R230,31	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R232	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R233,34	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R235	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R236,37	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R238	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R239,40	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R241	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R242	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R243,44	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R246	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R247,48	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R249	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R250,51	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R252	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R253,54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R255	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R256,57	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R258	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R259,60	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R261	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R262	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R263	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R266-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R271	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R273	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R275	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R277	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R281	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R284,85	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R288	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R290	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R291	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R292,93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R294	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R295	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R296	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R297	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R298	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R299	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R304-15	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	12	
R316,17	ERG1SJ100	M.RESISTOR 1W 10	2	
R318	ERX1SJ6R2	M.RESISTOR 1W 6.2	1	
R319	ERG1SJ100	M.RESISTOR 1W 10	1	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R329,30	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R332	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R333	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R334	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R335	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R336	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R337,38	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R341	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R342	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R346	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R347	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349-62	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	14	
R363,64	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R365	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R366	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R500	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R501	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R502,03	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R504-11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R512	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R513,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R517	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R518,19	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R520	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R529-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R532,33	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R534	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R542	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R545	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R546	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R548,49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R550,51	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R554-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R580	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R585	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R598	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R599	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R606, 07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R608	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R610-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R618-20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R621-28	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R630	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R633	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R635	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R637	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R640	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R641	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R702	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R705-10	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	6	
R711-16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	6	
R717	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R718	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R719, 20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R721, 22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R723-26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R727	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R728-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R732-34	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R735	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R736	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R737	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R738	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R739, 40	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R741, 42	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R743, 44	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R745, 46	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R747	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R748	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R749, 50	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R751	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R752, 53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R754	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R755	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R756-59	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R760	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R762	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R764, 65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R766	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R767-69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R770	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R771	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R772	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R773	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R774	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R775, 76	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R777	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R778-81	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	4	
R782	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R783	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R784	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R785	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R786	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R787	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R788	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R789	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R790	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R791	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R792	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R793	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R794, 95	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R796	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R797, 98	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R799	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R800, 01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R802	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R803, 04	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R805-08	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	4	
R809	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R810	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R811, 12	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R813	ERJ6GEYG824	M.RESISTOR CH 1/10W 820K	1	
R814	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R815	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R816-39	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	24	
R840-47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R848-56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R857	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R858, 59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R860-62	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R863, 64	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R865	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R866	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R867	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R868	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R869	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R870	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R871, 72	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R873	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R874, 75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R876	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R877, 78	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R879, 80	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R881	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R882, 83	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R884	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R885	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R886	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R887, 88	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R890	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R891	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R892	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R893	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R894	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R895	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R900-03	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
SW501	VSS0367-08B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TG701	EYF6CU	TEST POINT	1	
TP8	EYF6CU	TEST POINT	1	
VC1	VCV0049	TRIMMER	1	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
X500	VSX0641	CRYSTAL OSCILLATOR	1	
X701	VSX0465	CRYSTAL OSCILLATOR	1	
X702	VSX0498	CRYSTAL OSCILLATOR	1	
X703	VSX0614	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E3	VEP86146Q	F2 SYSCON P.C.BOARD	1	(RTL)FOR AJ-D440E
C1	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C9	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C10, 11	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	2	
C12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C13	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C14	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C16-26	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	11	
C27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C30	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C32-34	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C35	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C36,37	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C38,39	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C46	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C49	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C51	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C55	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C56-58	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C59,60	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C65	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C66	ECA12HG682	E.CAPACITOR 6800U	1	
C67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C68,69	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C70,71	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C72	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C73	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C74	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C76	ECA12HG682	E.CAPACITOR 6800U	1	
C77,78	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C79	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C81	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C83	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C86,87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C88-90	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C91,92	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C93	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C500,01	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	2	
C502	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C503-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C508-13	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C514	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C516-19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C523	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C526,27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C532-35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C537,38	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C543-45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C547	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C548	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C549,50	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C703-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C714	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C715,16	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C717-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C722,23	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C724,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C726	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C727	ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C728	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C729	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C730	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C731	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C732	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C733,34	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C735	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C736	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C737	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C738	ECA1CAXN330	E.CAPACITOR 16V 33U	1	
C739,40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C741	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C742	ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C743	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C744,45	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C746	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C747-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	15	
C762	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C763	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C764	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C765	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C766	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C767	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C768	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C769	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C770	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C771	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C772,73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C774	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C777-80	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C781,82	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C783	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C784	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C785	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C900,01	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C902,03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C904-07	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	4	
D1	MA157	DIODE	1	
D2-D5	MA715	DIODE	4	
D8	MA152WK	DIODE	1	
D9	MA3068-H	DIODE	1	
D10	MA3051-H	DIODE	1	
D11	MA3047-M	DIODE	1	
D12	MA3100-M	DIODE	1	
D13	MA3051-H	DIODE	1	
D14	MA3075-M	DIODE	1	
D15	21DQ04	DIODE	1	
D16	MA3051-H	DIODE	1	
D17	MA157	DIODE	1	
D18-22	MA152WK	DIODE	5	
D25-27	MA152WK	DIODE	3	
D28-43	MA738	DIODE	16	
D44	MA152WK	DIODE	1	
D45-48	MA738	DIODE	4	
D49,50	SN74S1051NS	IC	2	
D51	MA3062-L	DIODE	1	
D52	MA3082M	DIODE	1	
D53	MA3075-M	DIODE	1	
D54	MA738	DIODE	1	
D500	MA152WK	DIODE	1	
D504,05	MA715	DIODE	2	
D506	MA152WK	DIODE	1	
D507	MA715	DIODE	1	
D701-06	MA715	DIODE	6	
D709	MA715	DIODE	1	
D711-14	MA157	DIODE	4	
D715	MA152WK	DIODE	1	
D716-19	MA715	DIODE	4	
D720-22	SN74S1051NS	IC	3	
D723,24	MA715	DIODE	2	
FL701,02	VLF1016A470	FILTER	2	
FL900-03	VLF1016A470	FILTER	4	
IC1	M37702S4AFP	IC	1	
IC2	VSI3069	IC	1	
IC3	74F573SJ	IC	1	
IC4	74F138SJ	IC	1	
IC5	74F573SJ	IC	1	
IC6	TL7705CPSB	IC	1	
IC7	MC74HC132AF	IC	1	
IC8	MC74HC04AF	IC	1	
IC9,10	74AC32SJ	IC	2	
IC11,12	74F32SJ	IC	2	
IC13	MC74HC74AF	IC	1	
IC14	74F11SJ	IC	1	
IC15	IDT71321A55	IC	1	
IC16	74F245SJ	IC	1	
IC17	DS1230Y100	IC	1	
IC19,20	74F541SJ	IC	2	
IC23	74F245SJ	IC	1	
IC24	UPD6456T611Y	IC	1	
IC25	74F138SJ	IC	1	
IC26	MB89363BHPF	IC	1	
IC27,28	M54649L	IC	2	
IC29	NJM2901M	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC30	NJM2904M	IC	1	
IC31,32	MC14538BF	IC	2	
IC33	74F32SJ	IC	1	
IC34	74F00SJ	IC	1	
IC35	NJM2901M	IC	1	
IC36,37	TC7S14F	IC	2	
IC500	HD64180ZRP8	IC	1	
IC501,02	MC74HC541AF	IC	2	
IC503	VS13065	IC	1	
IC504	K6256DLG7L	IC	1	
IC505	IDT71321A55	IC	1	
IC506	MC74HC138AF	IC	1	
IC507	74F32SJ	IC	1	
IC508	MC74HC00AF	IC	1	
IC509	T74HC191AF	IC	1	
IC510	Z84C4310FEC	IC	1	
IC514	MC34051M	IC	1	
IC515	MC1488M	IC	1	
IC516	MC1489AM	IC	1	
IC517	MC14024BF	IC	1	
IC523	MC74HC04AF	IC	1	
IC524	MC14050BF	IC	1	
IC525	SN74LS38NS	IC	1	
IC527	MB89363BPF	IC	1	
IC528,29	MC14021BF	IC	2	
IC530,31	T74HC191AF	IC	2	
IC532	MC74HC574AF	IC	1	
IC701	M37702S4AFP	IC	1	
IC702	VS13071	IC	1	
IC703	K6256DLG7L	IC	1	
IC704	74F573SJ	IC	1	
IC705,06	74F138SJ	IC	2	
IC707,08	74F32SJ	IC	2	
IC709	74F00SJ	IC	1	
IC710	MN51040VPI	IC	1	
IC711	MC74HC574AF	IC	1	
IC712	74AC32SJ	IC	1	
IC713	74F32SJ	IC	1	
IC714,15	74F541SJ	IC	2	
IC716	74F245SJ	IC	1	
IC717	74F541SJ	IC	1	
IC718	MC14053BF	IC	1	
IC719	NJM4560MD	IC	1	
IC720	NJM2068MD	IC	1	
IC721	UPC319G2	IC	1	
IC722	UPC4741G2	IC	1	
IC723	NJM78L09UA	IC	1	
IC724	NJM79L09UA	IC	1	
IC725,26	NJM084M	IC	2	
IS2	VJS2336A032	CONNECTOR (FEMALE)	1	
IS17	VJS3096628	CONNECTOR (FEMALE)	1	
IS503	VJS2336A032	CONNECTOR (FEMALE)	1	
IS702	VJS2336A032	CONNECTOR (FEMALE)	1	
L1	VLQ0163J270	COIL 27UH	1	
L2	VLQ0319K470	COIL 47UH	1	
L500-03	VLQ0576	COIL	4	
L701	VLQ0163J470	COIL 47UH	1	
L900-03	VLP0133	COIL	4	
LED1-D4	LN1251CAL	DIODE	4	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q3	2SB710A-R	TRANSISTOR	1	
Q4	2SB936A-Q	TRANSISTOR	1	
Q5,Q6	2SD601A-R	TRANSISTOR	2	
Q7,Q8	2SB1073-R	TRANSISTOR	2	
Q9	2SD601A-R	TRANSISTOR	1	
Q10	2SB709A-R	TRANSISTOR	1	
Q11,12	2SD1119-R	TRANSISTOR	2	
Q13	2SB709A-R	TRANSISTOR	1	
Q14	2SD601A-R	TRANSISTOR	1	
Q15,16	2SB1073-R	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q17	2SD601A-R	TRANSISTOR	1	
Q18	2SB709A-R	TRANSISTOR	1	
Q19,20	2SD1119-R	TRANSISTOR	2	
Q21	2SB709A-R	TRANSISTOR	1	
Q22	2SD601A-R	TRANSISTOR	1	
Q23,24	2SB1175-Q	TRANSISTOR	2	
Q25	2SD601A-R	TRANSISTOR	1	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD1747PQY	TRANSISTOR	2	
Q29	2SB709A-R	TRANSISTOR	1	
Q30	2SD601A-R	TRANSISTOR	1	
Q31,32	2SB1073-R	TRANSISTOR	2	
Q33	2SD601A-R	TRANSISTOR	1	
Q34	2SB709A-R	TRANSISTOR	1	
Q35,36	2SD1119-R	TRANSISTOR	2	
Q37	2SB709A-R	TRANSISTOR	1	
Q38	2SD601A-R	TRANSISTOR	1	
Q39	2SB1175-Q	TRANSISTOR	1	
Q701-03	2SD601A-R	TRANSISTOR	3	
Q704,05	2SB709A-R	TRANSISTOR	2	
QR3-10	UN2213	TRANSISTOR-RESISTOR	8	
QR11-16	UN2214	TRANSISTOR-RESISTOR	6	
QR17	UN2213	TRANSISTOR-RESISTOR	1	
QR18-26	UN2214	TRANSISTOR-RESISTOR	9	
QR27,28	UN2113	TRANSISTOR-RESISTOR	2	
QR29,30	UN2214	TRANSISTOR-RESISTOR	2	
QR31,32	UN2113	TRANSISTOR-RESISTOR	2	
QR33,34	UN2214	TRANSISTOR-RESISTOR	2	
QR35,36	UN2113	TRANSISTOR-RESISTOR	2	
QR37,38	UN2213	TRANSISTOR-RESISTOR	2	
QR39,40	UN2113	TRANSISTOR-RESISTOR	2	
QR41	UN2213	TRANSISTOR-RESISTOR	1	
QR42	UN2113	TRANSISTOR-RESISTOR	1	
QR43	UN2213	TRANSISTOR-RESISTOR	1	
QR701-03	UN221L	TRANSITOR-RESISTOR	3	
QR704,05	UN2214	TRANSISTOR-RESISTOR	2	
R1-R5	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	5	
R6-10	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R11,12	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R13,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R16	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R17	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R18,19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R20	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R21,22	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R23,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R25,26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R27,28	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R29	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R33-35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R38,39	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R43	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R44	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R45	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R46	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R49	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R54,55	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R56	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R57	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R58-61	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R63-70	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R71,72	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R73,74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R75	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R76,77	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R82	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R83	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R84-87	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R89	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R90-95	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R96	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R97	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R100	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R101,02	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R103,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R105	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R106	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R108	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R109,10	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R111,12	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R113	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R114	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R116	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R117,18	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R119,20	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R121	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R122	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R124	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R125,26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R127,28	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R129-37	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	9	
R138,39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R141,42	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R144	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R145-47	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R148	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R150	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R151	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R152	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R153	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R154	ERX1SJ1R0	M.RESISTOR 1W 1.0	1	
R155	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R156	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R157	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R158	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R159	ERG1SJ220	M.RESISTOR 1W 22	1	
R160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R161	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R162,63	ERJ8GCYG151	M.RESISTOR CH 1/8W 150	2	
R164,65	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R166	ERJ8GCYG152	M.RESISTOR CH 1/8W 1.5K	1	
R167-69	ERJ8GCYG681	M.RESISTOR CH 1/8W 680	3	
R170	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R171	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R172,73	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R174-81	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R182	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R184	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R185	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R186	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R187-90	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	4	
R191	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R192	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R193,94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R195	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R196,97	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R198	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R199,00	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R201	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R202	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R203,04	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R206	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R207,08	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R210,11	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R212	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R213,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R215	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R216,17	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R218	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R219,20	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R221	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R222	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R223,24	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R225	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R226	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R227,28	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R229	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R230,31	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R232	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R233,34	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R235	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R236,37	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R238	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R239,40	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R241	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R242	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R243,44	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R245	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R246	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R247,48	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R249	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R250,51	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R252	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R253,54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R255	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R256,57	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R258	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R259,60	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R261	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R262	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R263	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R266-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R271	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R273	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R275	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R277	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R281	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R284,85	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R288	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R290	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R291	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R292,93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R294	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R295	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R296	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R297	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R298	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R299	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R304-15	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	12	
R316,17	ERG1SJ100	M.RESISTOR 1W 10	2	
R318	ERX1SJ6R2	M.RESISTOR 1W 6.2	1	
R319	ERG1SJ100	M.RESISTOR 1W 10	1	
R320	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R321-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R329,30	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R332	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R333	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R334	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R335	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R336	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R337,38	ERJ8GCYJ391	M.RESISTOR CH 1/8W 390	2	
R341	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R342	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R346	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R347	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R348	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R349-62	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	14	
R363,64	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R365	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R366	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R500	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R501	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R502,03	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R504-11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R512	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R513,14	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R517	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R518,19	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R520	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R529-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R532,33	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R534	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R542	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R545	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R546	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R548,49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R550,51	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R554-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R580	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R585	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R598	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R599	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R606,07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R608	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R610-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R618-20	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R621-28	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R630	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R633	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R635	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R637	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R640	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R641	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R702	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R705-10	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	6	
R711-16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	6	
R717	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R718	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R719,20	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R721,22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R723-26	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R727	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R728-31	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R732-34	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R735	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R736	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R737	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R738	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R739,40	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R741,42	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R743,44	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R745,46	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R747	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R748	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R749,50	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R751	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R752,53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R754	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R755	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R756-59	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	4	
R762	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R764,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R766	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R767-69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R770	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R771	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R772	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R773	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R774	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R775,76	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R777	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R778-81	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	4	
R782	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R783	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R784	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R785	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R786	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R787	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R788	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R789	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R790	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R791	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R792	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R793	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R794,95	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R796	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R797,98	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R799	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R800,01	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R802	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R803,04	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	2	
R805-08	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	4	
R809	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R810	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R811,12	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R813	ERJ6GEYG824	M.RESISTOR CH 1/10W 820K	1	
R814	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R815	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R816-39	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	24	
R840-47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R848-56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	9	
R857	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R858,59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R860-62	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R863,64	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R865	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R866	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R867	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R868	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R869	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R870	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R871,72	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R873	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R874,75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R876	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R877,78	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R879,80	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R881	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R882,83	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R884	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R885	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R886	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R887,88	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	2	
R890	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R891	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R892	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R893	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R894	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R895	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R900-03	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
SW501	VSS0367-08B	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TG701	EYF6CU	TEST POINT	1	
TP8	EYF6CU	TEST POINT	1	
VC1	VCV0049	TRIMMER	1	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
X500	VSX0641	CRYSTAL OSCILLATOR	1	
X701	VSX0465	CRYSTAL OSCILLATOR	1	
X702	VSX0498	CRYSTAL OSCILLATOR	1	
X703	VSX0615	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E4	VEP83352C	F4 V OUT P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
C100	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C102	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C150-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C200-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C250,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C252	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C253-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C258	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C261	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C263	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C265	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C267	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C300-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C303	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C304	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C305	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C306,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C308	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C309,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C311	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C312	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C313	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C314-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C317	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C318-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C324	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C325,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C327	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C328	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C329,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C331	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C332	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C333	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C334,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C336,37	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C338	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C339	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C340	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C342	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C343	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C344	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C346	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C347	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C348,49	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C350	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C351	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C352-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	15	
C370,71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C372	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C373	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C374	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C375	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C376	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C377	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C378	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C400	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C401	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C402-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C405	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C407	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C408	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C409,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C412,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C415	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C425	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C500	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C501	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C502	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C503	ECUX1H821JV	C.CAPACITOR CH 50V 820P	1	
C504	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C505	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C506,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C508	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C509	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C510,11	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C512	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C513-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C516	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C517	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C518	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C519-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C522	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C523-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C526	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C527	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C528	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C529	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C530-33	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C534	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C535-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C539	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C541	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C542	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C545	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C546	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C547	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C548	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C549	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C550	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C551	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C552	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C553	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C554	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C555	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C556	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C557	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C558	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C559,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C561,62	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	2	
C566	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C568,69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C570	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C571	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C572	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C573-78	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C600-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C700-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C705	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C800,01	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C802	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C803,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C805	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C806	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C807	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C808,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C810	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C811-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C815	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C816	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C818	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C819	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C821	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C822	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C824	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C826	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C827	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C828	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C829-32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C833	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C834	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C836,37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C850	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C851	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C852-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C856	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C857	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C900	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C901	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C902	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C903	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C904,05	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C906	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C907	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C908	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C909	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C910,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C912	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C913	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C914-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C917	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C918	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C919	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C920	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C921	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C922	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C923	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C924	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C925	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C926	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C927	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C928	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C929	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C930	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C931	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C932	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C933	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C934,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C936	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C937	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C938	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C939	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C940	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C941,42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C943,44	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C945	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C946	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C947	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C948,49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1000	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C1001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1002	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C1003	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1005	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1006-12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C1013	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1014	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1015-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C1019	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	
C1020	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1021	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C1023	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C1025-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1028,29	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1030	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C1031	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1035	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1050	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1052	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1053-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C1057	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1058	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C1059	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1060	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C1062	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1104	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1106	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1109	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C1110	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C1111-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1114	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C1115-20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C1121	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1122	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1123	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1124-26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1127	ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C1128	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C1129-31	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1150	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1151	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1152	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1153	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1154	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1155	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1156	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1157,58	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	2	
C1159,60	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C1161	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1162	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1163	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1164	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1165	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1166,67	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1168	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1169	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1170-75	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C1176	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1177	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1178	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1179	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1180	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1181	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1182	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1183	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1184	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1185	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1186	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1187-95	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C1196-03	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	8	
C1204-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C1250-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1254-57	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	4	
C1258-61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1262-65	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C1266-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
D400	MA152K	DIODE	1	
D500	MA152K	DIODE	1	
D501,02	MA335-R	DIODE	2	
D503	MA152K	DIODE	1	
D900	MA142WK	DIODE	1	
D901	MA152K	DIODE	1	
D1000	MA142K	DIODE	1	
D1001	MA335-R	DIODE	1	
D1050	MA152K	DIODE	1	
D1100	MA142K	DIODE	1	
FL301	VLF1294	FILTER	1	
FL303	VLF1295	FILTER	1	
FL305	VLF1295	FILTER	1	
FL1150-53	VLF1016A223	FILTER	4	
IC150,51	SN74S1051NS	IC	2	
IC152	74ALS245ASJ	IC	1	
IC153,54	74ALS541SJ	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC156	VS12391B	IC	1	
IC157	SN74S1051NS	IC	1	
IC158	MC74HC574AF	IC	1	
IC159	UPD71055GB	IC	1	
IC160	MC74HC574AF	IC	1	
IC161	SN74S1051NS	IC	1	
IC163	MC74HC74AF	IC	1	
IC200,01	MC74HC574AF	IC	2	
IC202	MC74HC541AF	IC	1	
IC203	TC7SH08FU	IC	1	
IC250	XC62AP3002P	IC	1	
IC251	UPD65840G024	IC	1	
IC254	74F244SJ	IC	1	
IC256	74F244SJ	IC	1	
IC300	NJM082BM	IC	1	
IC301	NJM084M	IC	1	
IC303	MC74HC244AF	IC	1	
IC306-08	MB40778PF	IC	3	
IC309-11	EL4089CS	IC	3	
IC312,13	MC14053BF	IC	2	
IC500	NJM082BM	IC	1	
IC502	MC74HC4053F	IC	1	
IC503	M51272FP	IC	1	
IC600	74ALS541SJ	IC	1	
IC601-03	MC10H124M	IC	3	
IC700	VS12499C	IC	1	
IC702	74F244SJ	IC	1	
IC800	EL4089CS	IC	1	
IC801	NJM082BM	IC	1	
IC802	NJM2534V	IC	1	
IC805	AD828AR	IC	1	
IC850	NJM2534V	IC	1	
IC900	AN91A12S	IC	1	
IC902	NE521D-T	IC	1	
IC904	MC74HC04AF	IC	1	
IC908,09	MM74HC221AM	IC	2	
IC910	MC74HC125AF	IC	1	
IC913	NJM082BM	IC	1	
IC915	SN74LS221NS	IC	1	
IC916	NJM082BM	IC	1	
IC923-25	TC7SH00FU	IC	3	
IC1000	NE521D-T	IC	1	
IC1001	DAC10GS	IC	1	
IC1002	MC14053BF	IC	1	
IC1003	NJM082BM	IC	1	
IC1004	TC7SH08FU	IC	1	
IC1005	NJM084M	IC	1	
IC1015	TC7SH00FU	IC	1	
IC1051	NJM082BM	IC	1	
IC1053	SN74AS74ANS	IC	1	
IC1055,56	SN74AS244AN	IC	2	
IC1057	SN74AS74ANS	IC	1	
IC1100	NJM084M	IC	1	
IC1102	DAC10GS	IC	1	
IC1103	SN74LS221NS	IC	1	
IC1106	UPD65650J203	IC	1	
IC1107,08	MC74HC04AF	IC	2	
IC1113	MC74HC244AF	IC	1	
IC1114	MC74HC00AF	IC	1	
IC1115,16	SN74LS221NS	IC	2	
IC1150	NJM78L09UA	IC	1	
IC1151	NJM78L05UA	IC	1	
IC1152	NJM79L05UA	IC	1	
IC1153	NJM78L09UA	IC	1	
IC1154	AN78N05	IC	1	
IC1155	NJM79L09UA	IC	1	
IC1156	NJM78L09UA	IC	1	
IC1157	NJM78L05UA	IC	1	
IC1158	NJM79L05UA	IC	1	
IC1159	NJM79L09UA	IC	1	
IC1160	AN78N09	IC	1	
IC1161	NJM78L05UA	IC	1	
IC1162	NJM79L05UA	IC	1	
IC1163	AN79N09	IC	1	
IC1165,66	NJM78L09UA	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC1167,68	NJM79L09UA	IC	2	
L100-06	VLP0133	COIL	7	
L302,03	VLQ0163J6R8	COIL 6.8UH	2	
L304	VLQ0163J120	COIL 12UH	1	
L305,06	VLQ0163J560	COIL 56UH	2	
L307	VLQ0163J220	COIL 22UH	1	
L400	VLQ0163J470	COIL 47UH	1	
L500-02	VLQ0163J220	COIL 22UH	3	
L503	VLQ0163J270	COIL 27UH	1	
L504	VLQ0163J820	COIL 82UH	1	
L505,06	VLQ0163J470	COIL 47UH	2	
L507	VLQ0163J270	COIL 27UH	1	
L508	VLQ0163J6R8	COIL 6.8UH	1	
L509	VLQ0163J470	COIL 47UH	1	
L510	VLQ0163J5R6	COIL 5.6UH	1	
L800	VLQ0163J120	COIL 12UH	1	
L801,02	VLQ0163J220	COIL 22UH	2	
L850	VLQ0163J180	COIL 18UH	1	
L900	VLQ0163J101	COIL 100UH	1	
L901	VLQ0163J221	COIL 220UH	1	
L902	VLQ0163J680	COIL 68UH	1	
L903-08	VLQ0163J470	COIL 47UH	6	
L1000	VLQ0163J470	COIL 47UH	1	
L1001	VLQ0163J221	COIL 220UH	1	
L1002,03	VLQ0163J220	COIL 22UH	2	
L1004	VLQ0163J470	COIL 47UH	1	
L1100,01	VLQ0163J220	COIL 22UH	2	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
P3	VJP1233T	CONNECTOR (MALE) 6P	1	
Q300-05	2SD601A-R	TRANSISTOR	6	
Q306-14	2SB709A-R	TRANSISTOR	9	
Q315-17	2SD601A-R	TRANSISTOR	3	
Q318,19	2SB709A-R	TRANSISTOR	2	
Q400	2SC2404-D	TRANSISTOR	1	
Q401-03	2SB709A-R	TRANSISTOR	3	
Q404,05	2SD601A-R	TRANSISTOR	2	
Q406,07	2SB709A-R	TRANSISTOR	2	
Q408-10	2SD601A-R	TRANSISTOR	3	
Q500	2SB709A-R	TRANSISTOR	1	
Q501,02	2SC2295-C	TRANSISTOR	2	
Q503,04	2SB709A-R	TRANSISTOR	2	
Q505	2SC2295-C	TRANSISTOR	1	
Q506,07	2SB709A-R	TRANSISTOR	2	
Q508	2SD601A-R	TRANSISTOR	1	
Q510	2SD601A-R	TRANSISTOR	1	
Q513	2SD601A-R	TRANSISTOR	1	
Q800,01	2SA1532-B	TRANSISTOR	2	
Q802,03	2SD601A-R	TRANSISTOR	2	
Q804	2SB709A-R	TRANSISTOR	1	
Q806,07	2SB709A-R	TRANSISTOR	2	
Q850	2SA1532-B	TRANSISTOR	1	
Q851	2SB709A-R	TRANSISTOR	1	
Q1000	2SB709A-R	TRANSISTOR	1	
Q1001,02	2SK608-R	TRANSISTOR	2	
QR200	UN2212	TRANSISTOR-RESISTOR	1	
QR201	MUN2213	TRANSISTOR-RESISTOR	1	
QR202	MUN2112	TRANSISTOR-RESISTOR	1	
QR300	MUN2213	TRANSISTOR-RESISTOR	1	
QR301	MUN2112	TRANSISTOR-RESISTOR	1	
QR500,01	MUN2213	TRANSISTOR-RESISTOR	2	
QR801,02	MUN2213	TRANSISTOR-RESISTOR	2	
QR803	MUN2112	TRANSISTOR-RESISTOR	1	
R151,52	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R153,54	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R155-65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	11	
R166-69	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R170-80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	11	
R181,82	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R183-85	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R200-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	22	
R222	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R223,24	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R225-32	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	8	
R234	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R239	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R251	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R252	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R253	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R254	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R260	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R262	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R264	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R266-70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R273,74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R276	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R302	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R303	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R304	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R305	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R306	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308,09	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R310,11	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R312	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R313	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R314	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R315,16	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R317	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R318	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R320	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R321	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R322	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R323,24	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R326	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R329-32	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R334	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R336	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R337	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R338	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R339	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R340	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R341	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R342	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R343	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R344	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R345	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R347,48	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R349	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R350	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R351	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R352	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R353	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R354	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R357	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R358	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R359	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R362	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R363	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R366	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R367	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R368	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R370	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R372	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R374,75	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R378	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R379	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R380	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R382	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R383	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R384	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R385	ERJ6RBD752	M.RESISTOR CH 1/10W 7.5K	1	
R386-88	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R391,92	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R393,94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R400	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R401	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R402	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R403	ERJ6RBD151	M.RESISTOR CH 1/10W 150	1	
R404	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R405	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R406,07	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R408	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R409	ERJ6RBD752	M.RESISTOR CH 1/10W 7.5K	1	
R410	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R411	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R412	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R413	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R414	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R415,16	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R417,18	ERJ6RBD221	M.RESISTOR CH 1/10W 220	2	
R419	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R420	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R421	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R422	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R423,24	ERJ6RBD271	M.RESISTOR CH 1/10W 270	2	
R425	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R426	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R427	ERJ6RBD221	M.RESISTOR CH 1/10W 220	1	
R428	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	
R429	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R430	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R431	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R432	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R433	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R434,35	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R500	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R502,03	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R504	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R505	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R509	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R510	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R511	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R512	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R514	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R515	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R516	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R517	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R518	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R519,20	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R521	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R522	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R523	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R524	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R525	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R526	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R527	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R528	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R529	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R530	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R531	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R532-34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R535,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R537,38	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	
R539	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R540,41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R542	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R543	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R544,45	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R546	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R547,48	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R549	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R550	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R552	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R553	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R562	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R565	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R571	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R572	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R573	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R574	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R577	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R579	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R580	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R581	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R583	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R585	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R600	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R601-10	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	10	
R611-34	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	24	
R635-58	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	24	
R700,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R702	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R704,05	ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R800	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R801	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R802	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R803	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R804	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R806	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R810	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R812	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R813,14	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R815	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R816	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R817	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R820	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R821	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R822	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R824	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R825	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R826	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R828	VRE006610102	M.RESISTOR CH 1/10W 1K	1	
R829,30	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R831,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R833	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R834	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R835,36	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	
R837	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R838-40	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	3	
R841	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R842	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R843	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R844,45	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R849,50	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R851	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R852	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R853	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R854	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R855,56	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R857	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R858,59	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R860	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R861	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R862	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R863	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R864	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R865	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R866	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R870,71	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R874	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R876	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R877	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R881	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R900	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R901	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R902	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R903	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R904,05	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R906,07	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R908-10	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R911	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R912	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R913	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R914	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R915	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R916	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R917	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R918	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R919	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R920	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R921,22	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R923	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R924	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R925,26	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R927	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R928	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R929	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R930	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R931	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R932	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R933	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R934,35	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1000	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1001	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1002	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1004	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1006,07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1008	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1009	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1010	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1011	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1013	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1014	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1015	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1016	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1018	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R1019	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1020	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1021	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1022,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1024	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1025	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1026	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R1027	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1028	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1030	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1036	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1050	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1052	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1053	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1054	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1055	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1056	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1057	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1058	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1060	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1100	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1101	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1103	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1104	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1105	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1106	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1107	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1108	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1109	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1110	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1112	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1113	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1115-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R1119	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1122	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1124	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1125	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1126	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1127	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1128	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1129	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1135	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R1136	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
SW400	VSS0372	SWITCH	1	
TG100	VJR0646	TEST POINT	1	
TG901	VJR0646	TEST POINT	1	
TG1106	VJR0646	TEST POINT	1	
TH500	ERTD2FHL102S	THERMISTOR 1K	1	
TP300	VJR0646	TEST POINT	1	
TP903	VJR0646	TEST POINT	1	
TP905	VJR0646	TEST POINT	1	
TP1001	VJR0646	TEST POINT	1	
TP1100	VJR0646	TEST POINT	1	
TP1102-05	VJR0646	TEST POINT	4	
VC1000	ECV1ZW20X53T	TRIMMER	1	
VR300	EVMEGSA00B24	V.RESISTOR 20K	1	
VR301	EVMEGSA00B12	V.RESISTOR 100	1	
VR302-04	EVMEGSA00B13	V.RESISTOR 1K	3	
VR305,06	EVMEGSA00B52	V.RESISTOR 500	2	
VR307	EVMEGSA00B13	V.RESISTOR 1K	1	
VR310	VRV0113B102	V.RESISTOR 1K	1	
VR400	EVMEGSA00B13	V.RESISTOR 1K	1	
VR500-02	EVMEGSA00B53	V.RESISTOR 5K	3	
VR503	EVMEGSA00B13	V.RESISTOR 1K	1	
VR505,06	EVMEGSA00B23	V.RESISTOR 2K	2	
VR507	EVMEGSA00B13	V.RESISTOR 1K	1	
VR508,09	VRV0113B203	V.RESISTOR 20K	2	
VR800	EVMEGSA00B53	V.RESISTOR 5K	1	
VR801	EVMEGSA00B13	V.RESISTOR 1K	1	
VR802	EVMEGSA00B53	V.RESISTOR 5K	1	
VR803	EVMEGSA00B13	V.RESISTOR 1K	1	
VR804	VRV0113B203	V.RESISTOR 20K	1	
VR805	VRV0113B204	V.RESISTOR 200K	1	
VR900	EVMEGSA00B54	V.RESISTOR 50K	1	
VR901	EVMEGSA00B14	V.RESISTOR 10K	1	
VR902	EVMEGSA00B53	V.RESISTOR 5K	1	
VR1000	EVMEGSA00B24	V.RESISTOR 20K	1	
VR1050	EVMEGSA00B53	V.RESISTOR 5K	1	
VR1100	EVMEGSA00B53	V.RESISTOR 5K	1	
VR1102	EVMEGSA00B53	V.RESISTOR 5K	1	
X900	VSX0338	CRYSTAL OSCILLATOR	1	
X901	VSX0567A	CRYSTAL OSCILLATOR	1	
X1000	VSX0081	CRYSTAL OSCILLATOR	1	
X1050	VSX0788	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E4	VEP83352B	F4 V OUT P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
C100	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C102	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C150-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C200-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C250,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C252	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C253-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C258	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C261	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C263	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C265	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C267	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C300-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C303	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C304	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C305	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C306,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C308	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C309,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C311	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C312	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C313	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C314-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C317	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C318-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C324	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C325,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C328	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C329,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C332	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C333	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C334,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C336,37	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C339	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C340	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C343	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C344	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C346	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C347	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C348,49	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C350	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C351	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C352-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	15	
C370,71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C372	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C373	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C374	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C375	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C376	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C377	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C378	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C400	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C401	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C402-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C405	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C407	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C409,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C412,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C415	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C425	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C500	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C501	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C502	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C503	ECUX1H821JV	C.CAPACITOR CH 50V 820P	1	
C504	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C505	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C506,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C508	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C509	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C510,11	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C512	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C513-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C516	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C517	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C518	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C519-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C522	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C523-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C526	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C527	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C528	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C529	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C530-33	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C534	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C535-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C539	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C540,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C542	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C543	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C544	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C545	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C546	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C548	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C550	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C551	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C552	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C553	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C554	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C555	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C556	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C557	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C558	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C559,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C561,62	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	2	
C563,64	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C565	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C566	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C567	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C568,69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C570	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C571	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C572	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C573-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C600-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C700-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C705	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C800,01	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C802	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C803,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C805	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C806	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C807	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C808,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C810	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C811-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C815	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C816	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C818	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C819	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C821	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C822	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C824	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C826	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C827	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C828	ECUX1H020CCV	C.CAPACITOR CH 50V 2P	1	
C829-32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C833	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C834	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C850	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C851	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C852-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C856	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C857	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C900	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C901	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C902	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C903	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C904,05	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C906	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C907	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C908	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C909	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C910,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C912	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C913	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C914-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C917	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C918	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C919	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C920	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C921	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C922	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C923	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C924	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C925	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C926	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C927	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C928	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C929	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C930	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C931	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C932	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C933	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C934,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C936	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C937	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C938	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C939	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C940	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C941,42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C945	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C946	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C947	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C948,49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1000	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C1001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1002	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C1003	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1005	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1006-12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C1013	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1014	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1015-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C1019	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	
C1020	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1021	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C1023	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C1025-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1028,29	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C1030	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C1031	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1035	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1050	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1052	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1053-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C1057	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C1058	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C1059	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1060	ECUX1H102JV	C.CAPACITOR CH 50V 1000P	1	
C1062	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1104	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1106	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1109	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1110	ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C1111-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1114	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C1115-20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C1121	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1122	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1123	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C1124-26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1127,28	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2	
C1129-31	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C1150	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1151	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1152	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1153	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1154	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1155	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1156	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1157,58	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	2	
C1159,60	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C1161	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1162	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1163	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1164	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1165	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1166,67	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C1168	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1169	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C1170-75	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C1176	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1177	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1178	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1179	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1180	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1181	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1182	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1183	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1184	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1185	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C1186	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C1187-95	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C1196-03	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	8	
C1204-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C1250-53	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1254-57	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	4	
C1258-61	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C1262-65	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C1266-69	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
D400	MA152K	DIODE	1	
D500	MA152K	DIODE	1	
D501,02	MA335-R	DIODE	2	
D503	MA152K	DIODE	1	
D900	MA142WK	DIODE	1	
D901	MA152K	DIODE	1	
D1000	MA142K	DIODE	1	
D1001	MA335-R	DIODE	1	
D1050	MA152K	DIODE	1	
D1100	MA142K	DIODE	1	
FL301	VLF1294	FILTER	1	
FL303	VLF1295	FILTER	1	
FL305	VLF1295	FILTER	1	
FL1150-53	VLF1016A223	FILTER	4	
IC150,51	SN74S1051NS	IC	2	
IC152	74ALS245ASJ	IC	1	
IC153,54	74ALS541SJ	IC	2	
IC156	VS12391B	IC	1	
IC157	SN74S1051NS	IC	1	
IC158	MC74HC574AF	IC	1	
IC159	UPD71055GB	IC	1	
IC160	MC74HC574AF	IC	1	
IC161	SN74S1051NS	IC	1	
IC163	MC74HC74AF	IC	1	
IC200,01	MC74HC574AF	IC	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC202	MC74HC541AF	IC	1	
IC203	TC7SH08FU	IC	1	
IC250	XC62AP3002P	IC	1	
IC251	UPD65840G024	IC	1	
IC254	74F244SJ	IC	1	
IC256	74F244SJ	IC	1	
IC300	NJM082BM	IC	1	
IC301	NJM084M	IC	1	
IC303	MC74HC244AF	IC	1	
IC306-08	MB40778PF	IC	3	
IC309-11	EL4089CS	IC	3	
IC312,13	MC14053BF	IC	2	
IC500	NJM082BM	IC	1	
IC502	MC74HC4053F	IC	1	
IC503	M51272FP	IC	1	
IC600	74ALS541SJ	IC	1	
IC601-03	MC10H124M	IC	3	
IC700	VS12500C	IC	1	
IC702	74F244SJ	IC	1	
IC800	EL4089CS	IC	1	
IC801	NJM082BM	IC	1	
IC802	NJM2534V	IC	1	
IC805	AD828AR	IC	1	
IC850	NJM2534V	IC	1	
IC900	AN91A12S	IC	1	
IC902	NE521D	IC	1	
IC904	MC74HC04AF	IC	1	
IC908,09	MM74HC221AM	IC	2	
IC910	MC74HC125AF	IC	1	
IC913	NJM082BM	IC	1	
IC915	SN74LS221NS	IC	1	
IC916	NJM082BM	IC	1	
IC923-25	TC7SH00FU	IC	3	
IC1000	NE521D	IC	1	
IC1001	DAC10GS	IC	1	
IC1002	MC14053BF	IC	1	
IC1003	NJM082BM	IC	1	
IC1004	TC7SH08FU	IC	1	
IC1005	NJM084M	IC	1	
IC1015	TC7SH00FU	IC	1	
IC1051	NJM082BM	IC	1	
IC1053	SN74AS74ANS	IC	1	
IC1055,56	SN74AS244AN	IC	2	
IC1057	SN74AS74ANS	IC	1	
IC1100	NJM084M	IC	1	
IC1102	DAC10GS	IC	1	
IC1103	SN74LS221NS	IC	1	
IC1106	UPD65650J203	IC	1	
IC1107,08	MC74HC04AF	IC	2	
IC1113	MC74HC244AF	IC	1	
IC1114	MC74HC00AF	IC	1	
IC1115,16	SN74LS221NS	IC	2	
IC1150	NJM78L09UA	IC	1	
IC1151	NJM78L05UA	IC	1	
IC1152	NJM79L05UA	IC	1	
IC1153	NJM78L09UA	IC	1	
IC1154	AN78N05	IC	1	
IC1155	NJM79L09UA	IC	1	
IC1156	NJM78L09UA	IC	1	
IC1157	NJM78L05UA	IC	1	
IC1158	NJM79L05UA	IC	1	
IC1159	NJM79L09UA	IC	1	
IC1160	AN78N09	IC	1	
IC1161	NJM78L05UA	IC	1	
IC1162	NJM79L05UA	IC	1	
IC1163	AN79N09	IC	1	
IC1165,66	NJM78L09UA	IC	2	
IC1167,68	NJM79L09UA	IC	2	
L100-06	VLP0133	COIL	7	
L302,03	VLQ0163J6R8	COIL 6.8UH	2	
L304	VLQ0163J120	COIL 12UH	1	
L305,06	VLQ0163J560	COIL 56UH	2	
L307	VLQ0163J220	COIL 22UH	1	
L400	VLQ0163J101	COIL 100UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L500-02	VLQ0163J220	COIL 22UH	3	
L503	VLQ0163J270	COIL 27UH	1	
L504	VLQ0163J820	COIL 82UH	1	
L505,06	VLQ0163J470	COIL 47UH	2	
L507	VLQ0163J150	COIL 15UH	1	
L508	VLQ0163J5R6	COIL 5.6UH	1	
L509	VLQ0163J470	COIL 47UH	1	
L510	VLQ0163J6R8	COIL 6.8UH	1	
L800	VLQ0163J150	COIL 15UH	1	
L801,02	VLQ0163J220	COIL 22UH	2	
L850	VLQ0163J180	COIL 18UH	1	
L900	VLQ0163J101	COIL 100UH	1	
L901	VLQ0163J221	COIL 220UH	1	
L902	VLQ0163J390	COIL 39UH	1	
L903-08	VLQ0163J470	COIL 47UH	6	
L1000	VLQ0163J470	COIL 47UH	1	
L1001	VLQ0163J221	COIL 220UH	1	
L1002,03	VLQ0163J220	COIL 22UH	2	
L1004	VLQ0163J470	COIL 47UH	1	
L1100,01	VLQ0163J220	COIL 22UH	2	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
P3	VJP1233T	CONNECTOR (MALE) 6P	1	
Q300-05	2SD601A-R	TRANSISTOR	6	
Q306-14	2SB709A-R	TRANSISTOR	9	
Q315-17	2SD601A-R	TRANSISTOR	3	
Q318,19	2SB709A-R	TRANSISTOR	2	
Q400	2SC2404-D	TRANSISTOR	1	
Q401-03	2SB709A-R	TRANSISTOR	3	
Q404,05	2SD601A-R	TRANSISTOR	2	
Q406,07	2SB709A-R	TRANSISTOR	2	
Q408-10	2SD601A-R	TRANSISTOR	3	
Q500	2SB709A-R	TRANSISTOR	1	
Q501,02	2SC2295-C	TRANSISTOR	2	
Q503,04	2SB709A-R	TRANSISTOR	2	
Q505	2SC2295-C	TRANSISTOR	1	
Q506,07	2SB709A-R	TRANSISTOR	2	
Q508	2SD601A-R	TRANSISTOR	1	
Q509	XN6501	TRANSISTOR-RESISTOR	1	
Q510	2SD601A-R	TRANSISTOR	1	
Q511,12	2SC2295-C	TRANSISTOR	2	
Q513	2SD601A-R	TRANSISTOR	1	
Q514	2SB709A-R	TRANSISTOR	1	
Q800,01	2SA1532-B	TRANSISTOR	2	
Q802,03	2SD601A-R	TRANSISTOR	2	
Q804	2SB709A-R	TRANSISTOR	1	
Q806,07	2SB709A-R	TRANSISTOR	2	
Q850	2SA1532-B	TRANSISTOR	1	
Q851	2SB709A-R	TRANSISTOR	1	
Q1000	2SB709A-R	TRANSISTOR	1	
Q1001,02	2SK608-R	TRANSISTOR	2	
QR200	UN2212	TRANSISTOR-RESISTOR	1	
QR201	MUN2213	TRANSISTOR-RESISTOR	1	
QR202	MUN2112	TRANSISTOR-RESISTOR	1	
QR300	MUN2213	TRANSISTOR-RESISTOR	1	
QR301	MUN2112	TRANSISTOR-RESISTOR	1	
R151,52	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R153,54	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R155-65	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	11	
R166-69	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R170-80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	11	
R181,82	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R183-85	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R186	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R200-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	22	
R222	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R223,24	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R225-32	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	8	
R234	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R239	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R250	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R252	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R253	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R254	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R260	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R262,63	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R266-70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R273,74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R276	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R302	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R303	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R304	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R305	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R306	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308,09	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R310,11	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R312	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R313	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R314	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R315,16	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R317	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R318	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R320	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R321	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R322	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R323,24	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R326	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R329-32	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R334	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R336	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R337	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R338	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R339	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R340	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R341	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R342	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R343	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R344	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R345	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R347,48	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R349	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R350	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R351-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R354	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R355,56	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R357	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R358	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R359	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R362	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R363	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R364	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R366	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R367	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R368	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R369	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R370	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R372	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R374,75	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R378	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R379	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R380	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R382	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R383	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R384	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R385	ERJ6RBD752	M.RESISTOR CH 1/10W 7.5K	1	
R386-88	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R391,92	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R393,94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R400	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R401	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R402	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R403	ERJ6RBD151	M.RESISTOR CH 1/10W 150	1	
R404	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R405	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R406,07	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R408	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R409	ERJ6RBD752	M.RESISTOR CH 1/10W 7.5K	1	
R410	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R411	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R412	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R413	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R414	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R415,16	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
R417,18	ERJ6RBD221	M.RESISTOR CH 1/10W 220	2	
R419	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R420	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R421	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R422	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R423,24	ERJ6RBD271	M.RESISTOR CH 1/10W 270	2	
R425	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R426	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R427	ERJ6RBD221	M.RESISTOR CH 1/10W 220	1	
R428	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	
R429	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R430	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R431	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R432	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R433	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R434,35	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R500	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R502,03	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R504	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R505	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R506	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R509	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R510	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R511	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R514	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R515	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R516	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R517	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R518	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R519,20	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R521	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R522	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R523	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R524	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R525	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R526	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R527	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R528	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R529	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R530	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R531	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R532-34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R535,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R537,38	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	
R539	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R540,41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R542	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R543	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R544,45	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R546	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R547,48	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R549	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R550	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R551	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R554	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R555	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R556,57	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	2	
R558	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R559	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R563	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R564	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R565	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R566	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R567,68	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R569,70	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R571	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R572	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R573	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R574	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R575	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R576	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R577	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R578	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R579	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R580	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R581	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R600	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R601-10	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	10	
R611-34	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	24	
R635-58	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	24	
R700,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R702	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R704,05	ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R800	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R801	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R802	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R803	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R804	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R806	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R810	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R812	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R813,14	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R815	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R816	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R817	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R820	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R821	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R822	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R823	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R824	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R825	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R826	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R828	VRE006610102	M.RESISTOR CH 1/10W 1K	1	
R829,30	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R831,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R833	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R834-36	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	3	
R837	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R838-40	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	3	
R841	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R842	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R843	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R844,45	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R849,50	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R851	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R852	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R853	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R854	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R855,56	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R857	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R858,59	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R860	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R861	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R862	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R863	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R864	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R865	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R866	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R870	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R871	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R881	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R900	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R901	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R902	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R903	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R904,05	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R906,07	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R908-10	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R911	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R912	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R913	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R914	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R915	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R916	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R917	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R918	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R919	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R920	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R921,22	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R923	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R924	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R925,26	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R927	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R928	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R929	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R930	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R931	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R932	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R933	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R934,35	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R950	ERDS2TJ273	C.RESISTOR 1/4W 27K	1	
R1000	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1001	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1002	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1003	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1005	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1006,07	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1008	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1009	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1010	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1011	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1013	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1014	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1015	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1016	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1018	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R1019	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1020	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1021	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1022,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R1024	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1025	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1026	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R1027	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1028	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1030	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1036	ERJ3GEYJ101	M,RESISTOR CH 1/16W 100	1	
R1050	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1052	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1053	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1054	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1055	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R1056	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1057	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1058	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1060	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1100	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R1101	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1103	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1104	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1105,06	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R1107	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R1108	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1109	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1110	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1112	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R1115	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1119,20	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1122	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1123	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1124	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1125	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1126	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R1127	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1128	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R1129	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1136	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
TG100	VJR0646	TEST POINT	1	
TG901	VJR0646	TEST POINT	1	
TG1106	VJR0646	TEST POINT	1	
TH500	ERTD2FHL102S	THERMISTOR 1K	1	
TP300	VJR0646	TEST POINT	1	
TP903	VJR0646	TEST POINT	1	
TP905	VJR0646	TEST POINT	1	
TP1001	VJR0646	TEST POINT	1	
TP1100	VJR0646	TEST POINT	1	
TP1102-05	VJR0646	TEST POINT	4	
VC500	ECV1ZW30X53	TRIMMER	1	
VC1000	ECV1ZW20X53T	TRIMMER	1	
VR300	EVMEGSA00B24	V.RESISTOR 20K	1	
VR301	EVMEGSA00B12	V.RESISTOR 100	1	
VR302-04	EVMEGSA00B13	V.RESISTOR 1K	3	
VR305,06	EVMEGSA00B52	V.RESISTOR 500	2	
VR307	EVMEGSA00B13	V.RESISTOR 1K	1	
VR310	VRV0113B102	V.RESISTOR 1K	1	
VR400	EVMEGSA00B13	V.RESISTOR 1K	1	
VR500-02	EVMEGSA00B53	V.RESISTOR 5K	3	
VR503,04	EVMEGSA00B13	V.RESISTOR 1K	2	
VR505,06	EVMEGSA00B23	V.RESISTOR 2K	2	
VR507	EVMEGSA00B13	V.RESISTOR 1K	1	
VR800	EVMEGSA00B53	V.RESISTOR 5K	1	
VR801	EVMEGSA00B13	V.RESISTOR 1K	1	
VR802	EVMEGSA00B53	V.RESISTOR 5K	1	
VR803	EVMEGSA00B13	V.RESISTOR 1K	1	
VR900	EVMEGSA00B24	V.RESISTOR 20K	1	
VR901	EVMEGSA00B14	V.RESISTOR 10K	1	
VR902	EVMEGSA00B53	V.RESISTOR 5K	1	
VR1000	EVMEGSA00B24	V.RESISTOR 20K	1	
VR1050	EVMEGSA00B53	V.RESISTOR 5K	1	
VR1100	EVMEGSA00B53	V.RESISTOR 5K	1	
VR1102	EVMEGSA00B53	V.RESISTOR 5K	1	
X900	VSX0270	CRYSTAL OSCILLATOR	1	
X901	VSX0567A	CRYSTAL OSCILLATOR	1	
X1000	VSX0363	CRYSTAL OSCILLATOR	1	
X1050	VSX0788	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E5	VEP83353D	F5 REC PB P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
C3101-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3121	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3122	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3123	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3124	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3125,26	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3127	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3128	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3129	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	
C3130	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3131	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3132	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3134	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3135	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C3136	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3137,38	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C3139,40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3141	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3142	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3145	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3146,47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3148	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3149	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3150	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	
C3151	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3152	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3153-62	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
C3171-84	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	14	
C3185	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3191-15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	25	
C3216	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3221-28	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3229	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3241	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3242-49	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3250	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3261	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3262	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3263	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3264	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3265-68	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3269	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3281-89	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3292,93	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C3301-18	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	18	
C3319	VCK0151	C.CAPACITOR	1	
C3320	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3321	ECUV1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C3322	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3323	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3324	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3325	ECUV1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C3326	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3327,28	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3329	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3330	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C3331	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3332	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C3333	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3334	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3335	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3336	ECUV1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C3337	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3341-53	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	13	
C3354	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3361,62	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3367-70	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3381-92	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	12	
C3421-32	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	12	
C3441	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3442-45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3451-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3459	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3460,61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3471-77	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	7	
C3478	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3485,86	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3491-95	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3501	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3502-04	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3506	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3509	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3510	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3511	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C3512	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3513	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3514	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3515,16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3520	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C3521,22	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3523-25	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C3601	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3602	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3605	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3701,02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3703	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3704,05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3706	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3707,08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3709	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3710,11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3712	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3713,14	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3715	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3716,17	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3718	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3719,20	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3721	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3722,23	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3724	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3725,26	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3727	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3731-33	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	3	
C3741,42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3743	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3744,45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3746	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C6001	VCK0134K104	C.CAPACITOR 50V 0.1U	1	
D3101	MA715	DIODE	1	
D3102	MA335-R	DIODE	1	
D3103,04	MA152K	DIODE	2	
D3111,12	MA701A	DIODE	2	
D3501-03	MA715	DIODE	3	
D3507,08	MA152K	DIODE	2	
FL3101	VLF1116	FILTER	1	
FL3102	VLF1117	FILTER	1	
FL3103	VLF1118	FILTER	1	
FL3104-06	VLF1016A223	FILTER	3	
IC3001	UPD65841G025	IC	1	
IC3003	MN67372A2	IC	1	
IC3004	MN4706F	IC	1	
IC3005	MN673711	IC	1	
IC3006	M65401FP	IC	1	
IC3007	L7A1433	IC	1	
IC3008	MB81V4260S7	IC	1	
IC3009,10	L7A1434	IC	2	
IC3011	L7A1433	IC	1	
IC3012	MB81V4260S7	IC	1	
IC3013	MN673711	IC	1	
IC3014	M65401FP	IC	1	
IC3015	M52660FP	IC	1	
IC3016	MN67372A2	IC	1	
IC3017	MN4706F	IC	1	
IC3018-21	UPD42280G3	IC	4	
IC3022	UPD65843G026	IC	1	
IC3023	UPD42280G3	IC	1	
IC3024	UPD65868D022	IC	1	
IC3025	UPD71055GB	IC	1	
IC3028	UPD42280G3	IC	1	
IC3030	UPD71055GB	IC	1	
IC3031	T160G41-1437	IC	1	
IC3101,02	TCVHC257F	IC	2	
IC3103,04	T74VHCT244F	IC	2	
IC3105	MC74HC125AF	IC	1	
IC3107	TC7S66F	IC	1	
IC3108,09	NJM082BM	IC	2	
IC3110	TC7S04F	IC	1	
IC3111,12	74F244SJ	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3113	T74LCX244F	IC	1	
IC3114	MC10H124M	IC	1	
IC3115-17	T74LCX244F	IC	3	
IC3118-20	T74VHC244F	IC	3	
IC3121	MC10H125M	IC	1	
IC3122	T74LCX244F	IC	1	
IC3123-26	T74VHC245F	IC	4	
IC3127	TC7S66F	IC	1	
IC3128	T74VHCT244F	IC	1	
IC3129	MC10H124M	IC	1	
IC3130	TC7S66F	IC	1	
IC3131	T74VHC08F	IC	1	
IC3132	TCVHC257F	IC	1	
IC3133	T74VHCT244F	IC	1	
IC3134-36	T74VHC244F	IC	3	
IC3141-44	74ALS541SJ	IC	4	
IC3145	MC10H125M	IC	1	
IC3146,47	T74LCX244F	IC	2	
IC3148	T74VHC74F	IC	1	
IC3149,50	SN74S1051NS	IC	2	
IC3151,52	74ALS541SJ	IC	2	
IC3153	74ALS245ASJ	IC	1	
IC3154	74AC139SJ	IC	1	
IC3156	T74VHC244F	IC	1	
IC3157	TC7S04F	IC	1	
IC3158	T74VHC244F	IC	1	
IC3159-61	TCVHC257F	IC	3	
IC3162	T74VHC74F	IC	1	
IC3163,64	T74VHCT244F	IC	2	
IC3165,66	T74VHC245F	IC	2	
IC3167,68	T74VHC244F	IC	2	
IC3169	TC7S04F	IC	1	
IC3201	NJM78L09UA	IC	1	
IC3202	NJM79L09UA	IC	1	
IC3203	NJM78L05UA	IC	1	
IC3204	XC62AS0CXXP	IC	1	
IC3205	XC62AP3202P	IC	1	
IC3206	XC62AP2302P	IC	1	
IC3207,08	XC62AP3202P	IC	2	
IC3209	XC62AP2302P	IC	1	
IC3210,11	XC62AP3202P	IC	2	
IC3501	M37709M4L165	IC	1	
IC3502	S80727AND0	IC	1	
IC3503	T74VHC08F	IC	1	
IC3504	T74VHCU04F	IC	1	
IC3505	XC62AP3202P	IC	1	
IC3507,08	TC7S66F	IC	2	
IC3601	M37709M4L165	IC	1	
IC3603	T74VHC08F	IC	1	
L3101-06	VLQ0319K470	COIL 47UH	6	
L3107	VLQ0163J3R9	COIL 3.9UH	1	
L3108	VLQ0319K470	COIL 47UH	1	
L3111	VLQ0163J1R5	COIL 1.5UH	1	
L3121-23	VLQ0319K100	COIL 10UH	3	
L3131,32	VLP0133	COIL	2	
L3501	VLQ0319K470	COIL 47UH	1	
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	
P3003	VJP3418B060	CONNECTOR (MALE)	1	
Q3001	2SC2295-C	TRANSISTOR	1	
Q3501	2SB709A-R	TRANSISTOR	1	
QR3501	UN2214	TRANSISTOR-RESISTOR	1	
R3101,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3103-08	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R3109	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3110-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3114	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3115	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3117	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3118	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3120	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3122	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3123,24	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3125-30	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	6	
R3132	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3141,42	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3143	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3145	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R3146,47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3148	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R3149	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3150	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3152,53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3154	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3155	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3156	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R3157	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3158	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3159	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R3160	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3161	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3162,63	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3164	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3165	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3166	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3167	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3168,69	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3171-75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	5	
R3176	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3177-79	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R3181,82	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3185-88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3189-92	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	4	
R3193	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3195-01	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	7	
R3202	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3203-06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R3211	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3212-19	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R3220	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3221-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R3241-48	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R3249	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3250-57	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R3258	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3259,60	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3271	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3272-75	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3276-81	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3282,83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3284	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3285-87	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R3289-91	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R3292	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3294-02	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	9	
R3303-06	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3311	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3312-22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	11	
R3331	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3332	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R3333,34	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R3335-38	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3339-42	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	4	
R3351	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3352	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3353	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3361,62	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3363	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3364	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3365-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3370,71	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3372-74	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	3	
R3381	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3382	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3383	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3384-89	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3390	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3393	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R3394	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R3397	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R3398	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R3399	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3400	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R3401	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R3404	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R3405	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R3411	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3421	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3423	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3432, 33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3434-36	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R3437	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3438-53	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R3455, 56	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3461	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3463, 64	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3481	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3483-88	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3491, 92	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3495	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3499	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3501	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3502, 03	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R3504, 05	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3506, 07	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3508-10	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	3	
R3511	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3512-14	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3515	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3517-19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3520	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3521, 22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3523	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3524	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3525	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3527, 28	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3529	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3530	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R3531, 32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3533	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R3534	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3535, 36	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3537	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3538	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R3539, 40	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3541, 42	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3543	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3544	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3545	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3546	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3547	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3548	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3549	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3551	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3552	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3555, 56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3572-74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3576-91	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R3593, 94	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3597, 98	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3601, 02	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3603-07	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	5	
R3609, 10	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3612, 13	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3614	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3615	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3616, 17	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3618	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3621, 22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3623, 24	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3625	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3626	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3627	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3628	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3629	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3632, 33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3639-49	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	11	
R3651	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3652, 53	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R3654, 55	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3656, 57	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3673-75	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3701	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3703	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3708	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3709	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3710	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3722	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3725-32	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R3737-39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R3743-46	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3747-51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	5	
R3752	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3753	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3754	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3761, 62	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3763-66	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3767-74	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	8	
R3775	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3776	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3777	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3781-88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R3789-94	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3795-09	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	15	
R3811, 12	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3816	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3818	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3820	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3824	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3825-40	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R3851, 52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3853	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R3854, 55	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	2	
R3861-66	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3869-84	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	16	
R3885	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3887, 88	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3889	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3890, 91	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3892-07	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	16	
R3908	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R6001	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
SW3101	VSS0367-04B	SWITCH	1	
SW3102	VSS0367-08B	SWITCH	1	
TG3101	VJR0646	TEST POINT	1	
TG3102	EYF6CU	TEST POINT	1	
TG3501	EYF6CU	TEST POINT	1	
TP3101-06	EYF6CU	TEST POINT	6	
TP3108-12	EYF6CU	TEST POINT	5	
TP3113	VJR0646	TEST POINT	1	
TP3114	EYF6CU	TEST POINT	1	
TP3501, 02	EYF6CU	TEST POINT	2	
TP3601, 02	EYF6CU	TEST POINT	2	
VC3001	ECV1ZW50X53T	TRIMMER	1	
VR3101-03	EVMEGSA00B24	V.RESISTOR 20K	3	
X3102	VSX0789	CRYSTAL OSCILLATOR	1	
X3103	VSX0645	CRYSTAL OSCILLATOR	1	
X3501	VSX0637	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E5	VEP83353E	F5 REC PB P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
C3101-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3121	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3122	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3123	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C3124	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3125,26	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3127	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3128	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3129	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	
C3130	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3131	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3132	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3134	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3135	ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3136	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3137,38	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C3139,40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3141	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3142	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3145	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3146,47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3148	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3149	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3150	ECEV1EN3R3Q	E.CAPACITOR CH 25V 3.3U	1	
C3151	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3152	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3153-62	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
C3171-84	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	14	
C3185	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3191-15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	25	
C3216	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3221-28	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3229	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3241	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3242-49	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3250	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3261	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3262	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3263	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3264	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3265-68	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3269	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3281-89	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C3292,93	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	2	
C3301-18	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	18	
C3319	VCK0151	C.CAPACITOR	1	
C3320	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3321	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C3322	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3323	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3324	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3325	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C3326	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3327,28	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3329	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3330	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C3331	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3332	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C3333	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3334	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3335	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3336	ECUX1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C3337	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3341-53	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	13	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3354	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3361-71	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C3381-92	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	12	
C3401	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3402	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3403-12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
C3421-32	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	12	
C3441	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3442-45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3451-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C3459	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3460,61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3471-77	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	7	
C3478	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C3483-86	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C3491-95	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C3501	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3502-04	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C3506	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3509	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3510	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C3511	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C3512	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3513	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3514	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3515,16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3520	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C3521,22	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3523-25	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	3	
C3601	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3602	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C3605	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C3701,02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3703	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3704,05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3706	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3707,08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3709	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C3710,11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3712	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3713,14	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3715	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3716,17	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3718	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3719,20	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3721	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3722,23	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3724	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3725,26	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3727	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3731-33	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	3	
C3741,42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3743	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C3744,45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C3746	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C6001	VCK0134K104	C.CAPACITOR 50V 0.1U	1	
D3101	MA715	DIODE	1	
D3102	MA335-R	DIODE	1	
D3103,04	MA152K	DIODE	2	
D3111,12	MA701A	DIODE	2	
D3501-03	MA715	DIODE	3	
D3507,08	MA152K	DIODE	2	
FL3101	VLF1116	FILTER	1	
FL3102	VLF1117	FILTER	1	
FL3103	VLF1118	FILTER	1	
FL3104-06	VLF1016A223	FILTER	3	
IC3001	UPD65841G025	IC	1	
IC3003	MN67372A2	IC	1	
IC3004	MN4707F	IC	1	
IC3005	MN673711	IC	1	
IC3006	M65401FP	IC	1	
IC3007	L7A1433	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3008	MB81V4260S7	IC	1	
IC3009, 10	L7A1434	IC	2	
IC3011	L7A1433	IC	1	
IC3012	MB81V4260S7	IC	1	
IC3013	MN673711	IC	1	
IC3014	M65401FP	IC	1	
IC3015	M52660FP	IC	1	
IC3016	MN67372A2	IC	1	
IC3017	MN4707F	IC	1	
IC3018-21	UPD42280G3	IC	4	
IC3022	UPD65843G026	IC	1	
IC3023	UPD42280G3	IC	1	
IC3024	UPD65868D022	IC	1	
IC3025	UPD71055GB	IC	1	
IC3027, 28	UPD42280G3	IC	2	
IC3030	UPD71055GB	IC	1	
IC3031	T160G41-1437	IC	1	
IC3035	CG25123-5106	IC	1	
IC3036, 37	CY7C19920ZC	IC	2	
IC3101, 02	TCVHC257F	IC	2	
IC3103, 04	T74VHCT244F	IC	2	
IC3105	MC74HC125AF	IC	1	
IC3107	TC7S66F	IC	1	
IC3108, 09	NJM082BM	IC	2	
IC3110	TC7S04F	IC	1	
IC3111, 12	74F244SJ	IC	2	
IC3113	T74LCX244F	IC	1	
IC3114	MC10H124M	IC	1	
IC3115-17	T74LCX244F	IC	3	
IC3118-20	T74VHC244F	IC	3	
IC3121	MC10H125M	IC	1	
IC3122	T74LCX244F	IC	1	
IC3123-26	T74VHC245F	IC	4	
IC3127	TC7S66F	IC	1	
IC3128	T74VHCT244F	IC	1	
IC3129	MC10H124M	IC	1	
IC3130	TC7S66F	IC	1	
IC3131	T74VHC08F	IC	1	
IC3132	TCVHC257F	IC	1	
IC3133	T74VHCT244F	IC	1	
IC3134-36	T74VHC244F	IC	3	
IC3137	TCVHC164F	IC	1	
IC3138	T74VHC74F	IC	1	
IC3139	TCVHC02F	IC	1	
IC3140	TC7S00F	IC	1	
IC3141-44	74ALS541SJ	IC	4	
IC3145	MC10H125M	IC	1	
IC3146, 47	T74LCX244F	IC	2	
IC3148	T74VHC74F	IC	1	
IC3149, 50	SN74S1051NS	IC	2	
IC3151, 52	74ALS541SJ	IC	2	
IC3153	74ALS245ASJ	IC	1	
IC3154	74AC139SJ	IC	1	
IC3156	T74VHC244F	IC	1	
IC3157	TC7S04F	IC	1	
IC3158	T74VHC244F	IC	1	
IC3159-61	TCVHC257F	IC	3	
IC3162	T74VHC74F	IC	1	
IC3163, 64	T74VHCT244F	IC	2	
IC3165, 66	T74VHC245F	IC	2	
IC3167, 68	T74VHC244F	IC	2	
IC3169	TC7S04F	IC	1	
IC3171	TC7S04F	IC	1	
IC3172	TC7S32F	IC	1	
IC3201	NJM78L09UA	IC	1	
IC3202	NJM79L09UA	IC	1	
IC3203	NJM78L05UA	IC	1	
IC3204	XC62AS0CXXP	IC	1	
IC3205	XC62AP3202P	IC	1	
IC3206	XC62AP2302P	IC	1	
IC3207, 08	XC62AP3202P	IC	2	
IC3209	XC62AP2302P	IC	1	
IC3210, 11	XC62AP3202P	IC	2	
IC3501	M37709M4L165	IC	1	
IC3502	S80727ANDQ	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC3503	T74VHC08F	IC	1	
IC3504	T74VHCU04F	IC	1	
IC3505	XC62AP3202P	IC	1	
IC3507, 08	TC7S66F	IC	2	
IC3601	M37709M4L165	IC	1	
IC3603	T74VHC08F	IC	1	
L3101-06	VLQ0319K470	COIL 47UH	6	
L3107	VLQ0163J3R9	COIL 3.9UH	1	
L3108	VLQ0319K470	COIL 47UH	1	
L3111	VLQ0163J1R5	COIL 1.5UH	1	
L3121-23	VLQ0319K100	COIL 10UH	3	
L3131, 32	VLP0133	COIL	2	
L3501	VLQ0319K470	COIL 47UH	1	
P3001, 02	VJP3454B096	CONNECTOR (MALE)	2	
P3003	VJP3418B060	CONNECTOR (MALE)	1	
Q3001	2SC2295-C	TRANSISTOR	1	
Q3501	2SB709A-R	TRANSISTOR	1	
QR3501	UN2214	TRANSISTOR-RESISTOR	1	
R3101, 02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3103-08	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R3109	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3110-13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3114	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3115	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3117	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3118, 19	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3121	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3123, 24	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3125-30	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	6	
R3132	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3141, 42	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3143	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3145	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R3146, 47	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3148	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R3149	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3150	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3152, 53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3154	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3155	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3156	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R3157	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3158	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3159	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R3160	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3161	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3162, 63	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3164	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3165	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3166	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3167	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3168, 69	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3171-75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	5	
R3176	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3177-79	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R3181, 82	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3185-88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3189-92	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	4	
R3193	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3195-01	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	7	
R3202	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3203-06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R3211	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3212-19	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R3220	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3221-28	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R3241-48	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R3249	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3250-57	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R3258	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3259,60	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3271	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3272-75	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3276-81	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3282,83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R3284	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3285-87	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R3289-91	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R3292	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3294-02	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	9	
R3303-06	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3311	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3312-22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	11	
R3331	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3332	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R3333,34	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R3335-38	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3339-42	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	4	
R3351	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3352	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3353	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3361,62	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3363	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3364	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R3365-69	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R3370,71	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3372-74	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	3	
R3382	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3383	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3384-89	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	6	
R3390	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3393	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R3394	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R3397	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R3398	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R3399	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3400	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R3401	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R3404	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R3405	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R3411	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3422	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3424-27	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R3428	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3429-31	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3434-36	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R3437	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3454	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3456	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3461	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3463,64	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3471	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3472	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R3473	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3481	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3483-88	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3491,92	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3495	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3499	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3501	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3502,03	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R3504,05	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3506,07	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3508-10	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	3	
R3511	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3512-14	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3515	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3517-19	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3520	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3521,22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3523	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3524	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3525	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3527,28	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3529	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3530	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R3531,32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3533	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R3534	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3535,36	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3537	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R3538	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R3539,40	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3541,42	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3544	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3545	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3546	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3547	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3548	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3549	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3551	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3552	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3555,56	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3572-74	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R3576-91	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R3593,94	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3597,98	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3601,02	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R3603-07	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	5	
R3609,10	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3612,13	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3614	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3615	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3616,17	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3618	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R3621,22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3623,24	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R3625	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3627	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3628	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3629	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R3632,33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3639-49	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	11	
R3651	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3652,53	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R3654,55	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3656,57	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3673-75	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3701	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3703	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3708	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3709	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3710	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3722	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3725-32	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R3737-39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R3743-46	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3747-51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	5	
R3752	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3753	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3754	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R3761,62	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3763-66	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R3767-74	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	8	
R3775	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R3776	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3777	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R3781-88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R3789-94	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R3795-09	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	15	
R3811-13	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3815,16	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3818	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3820	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3823,24	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3825-32	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	8	
R3851,52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R3853	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R3854,55	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	2	
R3861-66	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3869-84	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	16	
R3885	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3887,88	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3889	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3890,91	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R3892-07	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	16	
R3908	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R6001	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
SW3101	VSS0367-04B	SWITCH	1	
SW3102	VSS0367-08B	SWITCH	1	
TG3101	VJR0646	TEST POINT	1	
TG3102	EYF6CU	TEST POINT	1	
TG3501	EYF6CU	TEST POINT	1	
TP3101-06	EYF6CU	TEST POINT	6	
TP3108-12	EYF6CU	TEST POINT	5	
TP3113	VJR0646	TEST POINT	1	
TP3114	EYF6CU	TEST POINT	1	
TP3501,02	EYF6CU	TEST POINT	2	
TP3601,02	EYF6CU	TEST POINT	2	
VC3001	ECV1ZW50X53T	TRIMMER	1	
VR3101-03	EVMEGSA00B24	V.RESISTOR 20K	3	
X3102	VSX0789	CRYSTAL OSCILLATOR	1	
X3103	VSX0645	CRYSTAL OSCILLATOR	1	
X3501	VSX0637	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E6	VEP83397B	F6 V IN P.C.BOARD	1	(RTL)FOR AJ-D450P
C1,C2	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C4	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C5-C7	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C8	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C9	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C51	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C101,02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C103	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C104-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C107	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C108	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C109	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C110-12	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C113	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C114-16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C117	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C118	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C119	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C120	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C151-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C160	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C201-05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C207-10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C211	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C251-54	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C256-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C262-66	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C301	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C302	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C303	ECEV1EV4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C304-06	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C307	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C308	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C309	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C310,11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C312	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C317	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C318-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C351	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C352	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C353	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C354	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C355	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C356	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C357	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C358	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C359	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C360	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C363,64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C365	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C367	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C368	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C370-72	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C373	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C374	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C375	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C376-83	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C401	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C402	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C403	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C404	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C405,06	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C407	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C408	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C409	ECEV1HVR47Q	E.CAPACITOR CH 50V 0.47U	1	
C410,11	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C417	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C418	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C419	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C420	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C421	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C425	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C426	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C427,28	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	2	
C429	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C430	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C431	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C432	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C433	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C434	ECEV1EV4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C435	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C436,37	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C438	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C439,40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C441	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C442,43	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C444	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C445	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C446	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C447,48	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C450	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C451	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C452	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C453	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C454	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C455-57	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C458	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	1	
C459,60	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C461	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C462,63	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C464-70	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	7	
C472	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C473	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C474,75	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C476	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C477	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C478	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C479	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C480	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C481	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C482	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C483	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C484	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C485	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C486	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C487,88	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	2	
C489	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C490-92	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	3	
C493,94	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C495,96	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C497,98	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C499	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C501	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C502	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C503	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C504	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C505	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C506	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C507	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C508	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C509	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C510	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C511	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C512	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C513	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C514,15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C516	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C518	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C519	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C521	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C522	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C523	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C524	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C525	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C526	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C527	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C528	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C529	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C530	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C531,32	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C534	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C536	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C537	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C538	ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C539	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C540	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C541	ECEV1HV4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C542	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C545	ECUV1H120JCN	C.CAPACITOR CH 50V 12P	1	
C550	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C551	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C552	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C553	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C554	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C555	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C556	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C557	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C558,59	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C561	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C562,63	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C565,66	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C567	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C568	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C569	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C570	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C571-73	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C601	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C602	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C603	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C604	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C605	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C606	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C607	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C608	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C609	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C610	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C612	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C613	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C614	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C615	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C616	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C617	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C618	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C619	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C621	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	1	
C622,23	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C624,25	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C626	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C627	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C629	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C651	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C652,53	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C654	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C655	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C701	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C702,03	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C704	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C705	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C706	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C707	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C708,09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C710	ECUM1H010CCN	C.CAPACITOR CH 50V 1P	1	
C712-14	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C715	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C716	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C717	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C718	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C719	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C720,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C722	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C723	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C724	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C725	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C726	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C727	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C728	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C730	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C731	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C732	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C733	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C734	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C735-40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C751	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C752,53	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C754	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C755	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C756	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C757	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C758,59	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C762-66	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C768	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C769	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C770,71	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C772	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C773	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C774	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C777	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C778	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C780	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C781	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C782	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C783	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C784	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C785-87	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C790	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C791	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C792	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C801	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C802,03	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C804	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C805	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C806	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C807	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C808,09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C812-16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C819	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C820,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C822	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C823	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C824	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C825	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C826	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C827	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C828	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C830	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C831	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C832	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C833	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C834	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C835-37	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C840	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C841	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C842	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C851-60	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
C901-03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C951	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C952-56	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C957	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C958	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C959	ECEV1HNR47Q	E.CAPACITOR CH 50V 0.47U	1	
C960,61	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	2	
C962	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C963	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C964,65	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C966	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C967-69	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C970	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C971	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C972	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C973	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C974	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C975	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C976	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C977	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C978	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C979	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C980	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C981,82	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C983	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C984-86	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
D301,02	MA152K	DIODE	2	
D351,52	MA152K	DIODE	2	
D401	MA152WK	DIODE	1	
D551	MA152WK	DIODE	1	
D601	MA335-R	DIODE	1	
D602	MA152WA	DIODE	1	
D603	MA152K	DIODE	1	
D701,02	MA152K	DIODE	2	
D751,52	MA152K	DIODE	2	
D801,02	MA152K	DIODE	2	
FL101	VLF1016A223	FILTER	1	
FL103	VLF1016A223	FILTER	1	
FL301	VLF1294	FILTER	1	
FL351	VLF1016A223	FILTER	1	
FL451	VLF1016A223	FILTER	1	
FL601,02	VLF1016A223	FILTER	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL701	VLF1294	FILTER	1	
FL702	VLF1016A223	FILTER	1	
FL751	VLF1295	FILTER	1	
FL801	VLF1295	FILTER	1	
FL851,52	VLF1016A223	FILTER	2	
IC101	AN78N09	IC	1	
IC102	AN78N05	IC	1	
IC103	AN79N09	IC	1	
IC104	AN79N05	IC	1	
IC151-54	MC10H125M	IC	4	
IC156	74F244SJ	IC	1	
IC201	VS12496	IC	1	
IC204	74ALS245ASJ	IC	1	
IC207,08	UPD71055GB	IC	2	
IC209,10	SN74S1051NS	IC	2	
IC251	VS12153A	IC	1	
IC252	VS12154	IC	1	
IC253	T74HCT541AF	IC	1	
IC254	T74HCT374AF	IC	1	
IC255	74F574SJ	IC	1	
IC259	T74HCT374AF	IC	1	
IC301	EL2082CS	IC	1	
IC302	NJM082BM	IC	1	
IC303	DAC10GS	IC	1	
IC351	AD818AR	IC	1	
IC352	NJM084M	IC	1	
IC353	CXD1175AM	IC	1	
IC354,55	NJM78L05UA	IC	2	
IC356	NJM79L05UA	IC	1	
IC401	UPC1862GS	IC	1	
IC402,03	NJM78L05UA	IC	2	
IC404	NJM79L05UA	IC	1	
IC405	AN91A12S	IC	1	
IC406	TC4W53F	IC	1	
IC407	MC74HC00AF	IC	1	
IC450	AD8047AR	IC	1	
IC451	UPD6486GF3BA	IC	1	
IC452,53	UPD42280G3	IC	2	
IC454	NJM78L05UA	IC	1	
IC455	NJM79L05UA	IC	1	
IC456,57	MC74HC4053F	IC	2	
IC458,59	AD8047AR	IC	2	
IC501	SN74LS221NS	IC	1	
IC502	MM74HC221AM	IC	1	
IC503	UPD65013BC16	IC	1	
IC504,05	NJM1496M	IC	2	
IC507	MC74HC4053F	IC	1	
IC508	MC74HC04AF	IC	1	
IC509,10	NJM082BM	IC	2	
IC511	NJM78L05UA	IC	1	
IC512	NJM79L05UA	IC	1	
IC513	MM74HC221AM	IC	1	
IC514-16	MC74HC4053F	IC	3	
IC517	NJM78L05UA	IC	1	
IC518	NJM79L05UA	IC	1	
IC551	MC14538BF	IC	1	
IC552	AN91A12S	IC	1	
IC553	NJM78L05UA	IC	1	
IC554	NJM79L05UA	IC	1	
IC555	MN53015VZW	IC	1	
IC601	SN74LS221NS	IC	1	
IC602	MC74HC00AF	IC	1	
IC603	NJM082BM	IC	1	
IC604	MC74HC74AF	IC	1	
IC605	TC4S584F	IC	1	
IC606	TC4W53F	IC	1	
IC607	MC74HC244AF	IC	1	
IC608	SN74LS221NS	IC	1	
IC701	MC74HC4053F	IC	1	
IC702	AD848JR	IC	1	
IC703	NJM084M	IC	1	
IC704	CXD1175AM	IC	1	
IC705,06	NJM78L05UA	IC	2	
IC707	NJM79L05UA	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC751	MC74HC4053F	IC	1	
IC752	AD848JR	IC	1	
IC753	NJM084M	IC	1	
IC754	MB40568PF	IC	1	
IC755,56	NJM78L05UA	IC	2	
IC757	NJM79L05UA	IC	1	
IC758	AN78N09	IC	1	
IC759	T74HCT541AF	IC	1	
IC801	MC74HC4053F	IC	1	
IC802	AD848JR	IC	1	
IC803	NJM084M	IC	1	
IC804	MB40568PF	IC	1	
IC805,06	NJM78L05UA	IC	2	
IC807	NJM79L05UA	IC	1	
IC808	AN78N09	IC	1	
IC851	T160G41-1437	IC	1	
IC852,53	UPD42280G3	IC	2	
IC901-03	74F244SJ	IC	3	
L1,L2	VLP0133	COIL	2	
L101,02	VLP0133	COIL	2	
L301-04	VLQ0319K101	COIL 100UH	4	
L351	VLQ0163J101	COIL 100UH	1	
L352	VLQ0319K101	COIL 100UH	1	
L401	VLQ0163J150	COIL 15UH	1	
L402-05	VLQ0319K100	COIL 10UH	4	
L406	VLQ0133J471	COIL 470UH	1	
L407	VLQ0319K101	COIL 100UH	1	
L451	VLQ0319K101	COIL 100UH	1	
L452	VLQ0319K100	COIL 10UH	1	
L454	VLQ0163J270	COIL 27UH	1	
L455	VLQ0163J6R8	COIL 6.8UH	1	
L456	VLQ0163J5R6	COIL 5.6UH	1	
L457	VLQ0319K101	COIL 100UH	1	
L501-03	VLQ0319K101	COIL 100UH	3	
L505,06	VLQ0163J680	COIL 68UH	2	
L507	VLQ0319K101	COIL 100UH	1	
L553	VLQ0133J471	COIL 470UH	1	
L601	VLQ0163J3R3	COIL 3.3UH	1	
L651,52	VLQ0319K101	COIL 100UH	2	
L703	VLQ0319K101	COIL 100UH	1	
L704	VLQ0133J821	COIL 820UH	1	
L754	VLQ0133J821	COIL 820UH	1	
L804	VLQ0133J821	COIL 820UH	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q301	2SB709A-R	TRANSISTOR	1	
Q302,03	2SD601A-R	TRANSISTOR	2	
Q351	2SD601A-R	TRANSISTOR	1	
Q352	2SB709A-R	TRANSISTOR	1	
Q353	2SK198-R	TRANSISTOR	1	
Q401	2SD601A-R	TRANSISTOR	1	
Q404	2SB709A-R	TRANSISTOR	1	
Q405,06	2SD601A-R	TRANSISTOR	2	
Q452	2SD601A-R	TRANSISTOR	1	
Q454	2SB709A-R	TRANSISTOR	1	
Q501,02	2SD601A-R	TRANSISTOR	2	
Q503	2SB709A-R	TRANSISTOR	1	
Q504,05	2SD601A-R	TRANSISTOR	2	
Q507,08	2SD601A-R	TRANSISTOR	2	
Q509	2SB709A-R	TRANSISTOR	1	
Q510,11	2SD601A-R	TRANSISTOR	2	
Q512	2SB709A-R	TRANSISTOR	1	
Q513,14	2SD601A-R	TRANSISTOR	2	
Q515	2SB709A-R	TRANSISTOR	1	
Q516-18	2SD601A-R	TRANSISTOR	3	
Q601	2SC3757-R	TRANSISTOR	1	
Q602,03	2SA1226E34	TRANSISTOR	2	
Q604	2SC3757-R	TRANSISTOR	1	
Q651	2SB709A-R	TRANSISTOR	1	
Q652	2SD601A-R	TRANSISTOR	1	
Q653	2SB709A-R	TRANSISTOR	1	
Q654	2SD601A-R	TRANSISTOR	1	
Q655	XN1213	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q656	2SB709A-R	TRANSISTOR	1	
Q657	2SD601A-R	TRANSISTOR	1	
Q658	2SC3757-R	TRANSISTOR	1	
Q701	2SD601A-R	TRANSISTOR	1	
Q702	2SB709A-R	TRANSISTOR	1	
Q703	2SD601A-R	TRANSISTOR	1	
Q704	2SB709A-R	TRANSISTOR	1	
Q705	2SK198-R	TRANSISTOR	1	
Q706	2SB709A-R	TRANSISTOR	1	
Q751	2SD601A-R	TRANSISTOR	1	
Q752	2SB709A-R	TRANSISTOR	1	
Q753	2SD601A-R	TRANSISTOR	1	
Q754	2SB709A-R	TRANSISTOR	1	
Q755	2SK198-R	TRANSISTOR	1	
Q756	2SD601A-R	TRANSISTOR	1	
Q801	2SD601A-R	TRANSISTOR	1	
Q802	2SB709A-R	TRANSISTOR	1	
Q803	2SD601A-R	TRANSISTOR	1	
Q804	2SB709A-R	TRANSISTOR	1	
Q805	2SK198-R	TRANSISTOR	1	
Q806	2SD601A-R	TRANSISTOR	1	
QR201	MUN2212	TRANSISTOR-RESISTOR	1	
QR551	MUN2212	TRANSISTOR-RESISTOR	1	
QR701,02	MUN2213	TRANSISTOR-RESISTOR	2	
QR751	MUN2213	TRANSISTOR-RESISTOR	1	
QR801	MUN2213	TRANSISTOR-RESISTOR	1	
R7-34	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	28	
R37-53	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	17	
R56-61	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	6	
R151-62	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	12	
R163	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R166	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R168,69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R201,02	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R208	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R214,15	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R216	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R251	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R301	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R302	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R303	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R304,05	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R306,07	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R308	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R309	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R310	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R311	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R312	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R315,16	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R317	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R318	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R352	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R354	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R355	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R358	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R359	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R360	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R361	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R362	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R363	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R364	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R365	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R366	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R369	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R370	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R371	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R401	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R402	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R403	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R404	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R407	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R412	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R413	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R414	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R415	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R416	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R417	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R418	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R419	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R420	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R421	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R422	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R423, 24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R425	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R426	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R427	ERDS2TJ392	C.RESISTOR 1/4W 3.9K	1	
R431	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R432	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R433	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R436	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R437	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R438-40	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R441	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R451	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R452	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R453	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R454	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R455, 56	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R457-60	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R463	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R465	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R466	ERJ6RBD162	M.RESISTOR CH 1/10W 1.6K	1	
R467	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R468	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R469	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R471	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R473	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R474	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R475	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R479	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R480	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R481	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R482	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R483-86	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R487	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R489	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R491	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R492	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R493	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R494	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R495	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R501	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R502	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R503	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R504	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R505, 06	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R510, 11	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R512	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R513	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R514	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R515	ERJ6GEYG823	M.RESISTOR CH 1/10W 82K	1	
R516	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R517	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R518	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R519	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R520, 21	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R522, 23	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R524	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R525	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R526	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R527	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R528	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R529	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R530	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R531	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R532	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R533	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R534	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R535	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R537	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R538	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R539	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R540	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R542	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R543, 44	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R545	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R546, 47	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R548, 49	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R550	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R558	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R559	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R562	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R565	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R566	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R567-70	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R575	ERDS2TJ392	C.RESISTOR 1/4W 3.9K	1	
R601	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R602	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R603	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R604	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R605	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R606, 07	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R608, 09	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R610	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R611	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R612, 13	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	2	
R614	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R615	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R616	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R617	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R618	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R619	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R620, 21	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R622	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R623	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R624	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R625	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R626	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R631	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R651	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R652	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R653	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R657	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R658	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R659	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R660	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R661	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R663	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R664	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R665	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R666	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R667	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R668	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R669	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R670	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R671, 72	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R702	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R703	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R704	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R707	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R708	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R711	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R712	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R713	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R714	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R715, 16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R717	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R718	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R719	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R720, 21	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R722	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R723	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R724	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R725	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R726	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R727	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R728	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R729	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R730	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R731	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R751	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R752	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R753	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R754	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R757	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R758	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R761	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R762	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R763,64	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	2	
R765,66	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R767	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R768	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R769	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R770,71	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R772	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R773	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R774	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R775	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R776	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R777	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R778	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R779	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R780	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R781	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R782	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R783	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R801	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R802	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R803	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R804	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R807	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R808	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R811	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R812	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R813,14	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	2	
R815,16	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R817	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R818	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R819	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R820,21	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R822	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R823	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R824	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R825	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R826	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R827	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R828	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R829	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R830	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R831	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R832	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R833	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R854-61	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	8	
R862-68	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	7	
R869	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R872	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R875	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R901-03	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R930	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R931,32	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R933	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R934	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R935	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R936	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R937	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R938	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R939	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R940,41	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R942	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R943	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R944	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R945	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R946	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R947	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R948,49	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R950	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R951	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R952	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R953	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R954	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R955	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R956	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R957	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R958	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R959	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R960	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R961	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R962,63	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R965	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R967	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R968	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R969	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R970	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R973,74	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R975,76	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R979	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R980	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R981	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R982	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R983	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R984	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R985	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R986,87	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R988	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R989	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R990	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R991	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R992	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
TG1-G6	VJR0646	TEST POINT	6	
TP351	VJR0646	TEST POINT	1	
TP501	VJR0646	TEST POINT	1	
TP502	EYF6CU	TEST POINT	1	
TP503,04	VJR0646	TEST POINT	2	
TP601-03	VJR0646	TEST POINT	3	
TP701	VJR0646	TEST POINT	1	
TP751	VJR0646	TEST POINT	1	
TP801	VJR0646	TEST POINT	1	
VL601	VLQ0415	COIL	1	
VR301	VRV0112B502	V.RESISTOR 5K	1	
VR351	VRV0112B502	V.RESISTOR 5K	1	
VR451,52	VRV0112B101	V.RESISTOR 100K	2	
VR453,54	VRV0112B501	V.RESISTOR 500	2	
VR501	VRV0112B502	V.RESISTOR 5K	1	
VR502,03	VRV0064B102	V.RESISTOR 1K	2	
VR504	VRV0112B502	V.RESISTOR 5K	1	
VR505	VRV0064B102	V.RESISTOR 1K	1	
VR507	VRV0064B102	V.RESISTOR 1K	1	
VR510,11	VRV0064B102	V.RESISTOR 1K	2	
VR512	VRV0112B502	V.RESISTOR 5K	1	
VR513-16	VRV0064B102	V.RESISTOR 1K	4	
VR601	VRV0112B202	V.RESISTOR 2K	1	
VR602	VRV0112B502	V.RESISTOR 5K	1	
VR701	VRV0064B102	V.RESISTOR 1K	1	
VR702	VRV0112B502	V.RESISTOR 5K	1	
VR703	VRV0064B102	V.RESISTOR 1K	1	
VR704	VRV0112B103	V.RESISTOR 10K	1	
VR751	VRV0064B102	V.RESISTOR 1K	1	
VR752	VRV0112B502	V.RESISTOR 5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR753	VRV0064B102	V.RESISTOR 1K	1	
VR754	VRV0112B502	V.RESISTOR 5K	1	
VR801	VRV0064B102	V.RESISTOR 1K	1	
VR802	VRV0112B502	V.RESISTOR 5K	1	
VR803	VRV0064B102	V.RESISTOR 1K	1	
VR804	VRV0112B502	V.RESISTOR 5K	1	
X402	VSX0330	CRYSTAL OSCILLATOR	1	
X501	VSX0338	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E6	VEP83398A	F6 V IN P.C.BOARD	1	(RTL)FOR AJ-D450E
C51-54	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C55	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C56	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C57	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C58-64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	7	
C65	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C66	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C67	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C68-70	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C101-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C110	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C160	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C201-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C212-15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C251-54	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C255-60	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C261	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C262,63	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C264	ECEV1EV4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C265-68	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C269,70	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C271-76	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	6	
C277	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C278	ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C279,80	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C281	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C283	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C284	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C285	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C286	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C287	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C288,89	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C292	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C301,02	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C303-06	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	4	
C307	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C308-11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C312	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C313	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C315	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C317-21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C322	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C324-26	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C327	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C328,29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C330	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C331-33	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C334	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C351-54	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C355-57	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	3	
C358-61	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C363,64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C365,66	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C368-76	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	9	
C378	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C380	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C381	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C383	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C386,87	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C389	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C390,91	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C392	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C393	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C394	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C395	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C396	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C397	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C398	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C399	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C400	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C401	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C402	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C403-05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C406	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C410-13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C414	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C415,16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C417	ECEV1HV4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C418-20	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	3	
C421-23	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C424	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C425	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C426	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C427,28	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C429	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C430	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C431	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C432	ECEV1HNR47Q	E.CAPACITOR CH 50V 0.47U	1	
C433	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C434	ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C435-39	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C442	ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C443	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C451	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C452-55	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C456-60	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C461-64	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	4	
C465	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C466-70	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C471,72	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C473	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C474	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C475	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C476	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C477	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C478-80	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	3	
C481,82	ECUM1H040CCN	C.CAPACITOR CH 50V 4P	2	
C483,84	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C485,86	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C487-90	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	4	
C491,92	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C493-96	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	4	
C497-00	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C501,02	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C503-06	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C510	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C511-15	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C516	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C517	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C518,19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C520,21	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C524,25	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C526	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C527,28	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C530	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C531,32	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C551,52	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C553	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C554	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C555,56	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C557	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C558,59	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C560	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C561	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C562	ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C563	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C564	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C565	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C566	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C567	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C568	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C569,70	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C571	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C572	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C573	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C576	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C578	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C579,80	ECEV1HN010Q	E.CAPACITOR CH 50V 1U	2	
C581	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C601,02	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C603,04	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C651	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C652-54	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C655	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C656-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C659,60	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C661,62	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C663,64	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C665	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C666	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C667	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C668,69	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C671	ECUM1H010CCN	C.CAPACITOR CH 50V 1P	1	
C672	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C673	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C675	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C676	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C677	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C678	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C679	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C680,81	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C682	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C683-85	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C686	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C687-89	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C701	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C702	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C703-05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C706	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C707-09	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C710,11	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C712	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C713	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C714	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C715	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C716,17	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C718	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C719	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C720	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C721	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C722	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C725	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C726	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C728	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C729	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C730	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C731	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C732	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C734	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C736	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C738	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C739	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C740-42	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C751	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C752	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C753-55	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C756	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C757-59	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C760,61	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C762	ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C763	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C764	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C765	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C766,67	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	2	
C768	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C769	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C770	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C771	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C772	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C775	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C776	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C778	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C779	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C780	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C781	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C782	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C784	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C786	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C788	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C789	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C790	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C792	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C801-10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
C853-55	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C856	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C857	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C858-67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	10	
D251,52	MA152K	DIODE	2	
D253	MA152WK	DIODE	1	
D301,02	MA152K	DIODE	2	
D451	MA152K	DIODE	1	
D501	MA152WK	DIODE	1	
D551	MA152K	DIODE	1	
D552	MA335-R	DIODE	1	
D553	MA152WA	DIODE	1	
D651,52	MA152K	DIODE	2	
D701,02	MA152K	DIODE	2	
D751,52	MA152K	DIODE	2	
FL51,52	VLF1016A223	FILTER	2	
FL251	VLF1294	FILTER	1	
FL301	VLF1016A223	FILTER	1	
FL351	VLF1016A223	FILTER	1	
FL551,52	VLF1016A223	FILTER	2	
FL651	VLF1294	FILTER	1	
FL652	VLF1016A223	FILTER	1	
FL701	VLF1295	FILTER	1	
FL751	VLF1295	FILTER	1	
FL801,02	VLF1016A223	FILTER	2	
FL851,52	VLF1016A223	FILTER	2	
IC51	AN78N09	IC	1	
IC52	AN78N05	IC	1	
IC53	AN79N09	IC	1	
IC54	AN79N05	IC	1	
IC101-03	MC10H125M	IC	3	
IC107	MC10H125M	IC	1	
IC110	74F244SJ	IC	1	
IC151,52	SN74S1051NS	IC	2	
IC153	VSI2496	IC	1	
IC156	74ALS245ASJ	IC	1	
IC164,65	UPD71055GB	IC	2	
IC201	VSI2402A	IC	1	
IC202	VSI2382	IC	1	
IC203	T74HCT541AF	IC	1	
IC204	T74HCT374AF	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC205	74F574SJ	IC	1	
IC210	T74HCT374AF	IC	1	
IC251	DAC10GS	IC	1	
IC252	NJM082BM	IC	1	
IC254	EL2082CS	IC	1	
IC255	NJM78L05UA	IC	1	
IC256	NJM79L05UA	IC	1	
IC257	TC4W53F	IC	1	
IC258	AN91A12S	IC	1	
IC259	MC74HC00AF	IC	1	
IC301	NJM79L05UA	IC	1	
IC302	NJM78L05UA	IC	1	
IC303	NJM084M	IC	1	
IC304	AD818AR	IC	1	
IC308	CXD1175AM	IC	1	
IC309	NJM78L05UA	IC	1	
IC351,52	NJM78L05UA	IC	2	
IC353	NJM79L05UA	IC	1	
IC354	CXD2105AQ	IC	1	
IC355	AD8047AR	IC	1	
IC356	MC74HC4053F	IC	1	
IC357,58	AD8047AR	IC	2	
IC359	MC74HC4053F	IC	1	
IC401	SN74LS221NS	IC	1	
IC402,03	MM74HC221AM	IC	2	
IC404	MC74HC04AF	IC	1	
IC406	NJM78L05UA	IC	1	
IC407	NJM79L05UA	IC	1	
IC410	NJM082BM	IC	1	
IC414	MC74HC4053F	IC	1	
IC418	NJM082BM	IC	1	
IC419	MC74HC4053F	IC	1	
IC423	NJM082BM	IC	1	
IC428	UPD65013BC16	IC	1	
IC451	NJM319M	IC	1	
IC452,53	NJM1496M	IC	2	
IC455,56	MC74HC4053F	IC	2	
IC459	NJM78L05UA	IC	1	
IC460	NJM79L05UA	IC	1	
IC501	NJM78L05UA	IC	1	
IC502	NJM79L05UA	IC	1	
IC503	AN91A12S	IC	1	
IC504	MC14538BF	IC	1	
IC507	MN53015VZW	IC	1	
IC551	MC74HC00AF	IC	1	
IC552	TC4S584F	IC	1	
IC554	MC74HC74AF	IC	1	
IC557	SN74LS221NS	IC	1	
IC560	NJM082BM	IC	1	
IC561	TC4W53F	IC	1	
IC562	SN74LS221NS	IC	1	
IC567	MC74HC244AF	IC	1	
IC651	NJM78L05UA	IC	1	
IC652	NJM79L05UA	IC	1	
IC653	MC74HC4053F	IC	1	
IC655	NJM084M	IC	1	
IC656	AD848JR	IC	1	
IC660	CXD1175AM	IC	1	
IC661	NJM78L05UA	IC	1	
IC701	NJM78L05UA	IC	1	
IC702	NJM79L05UA	IC	1	
IC703	MC74HC4053F	IC	1	
IC705	NJM084M	IC	1	
IC706	AD848JR	IC	1	
IC710	MB40568PF	IC	1	
IC711	NJM78L05UA	IC	1	
IC712	AN78N09	IC	1	
IC713	T74HCT541AF	IC	1	
IC751	NJM78L05UA	IC	1	
IC752	NJM79L05UA	IC	1	
IC753	MC74HC4053F	IC	1	
IC755	NJM084M	IC	1	
IC756	AD848JR	IC	1	
IC760	MB40568PF	IC	1	
IC761	NJM78L05UA	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC762	AN78N09	IC	1	
IC801	UPD42280G3	IC	1	
IC802	T160G41-1437	IC	1	
IC803	UPD42280G3	IC	1	
IC853	74F244SJ	IC	1	
IC854	CG25123-5106	IC	1	
IC855,56	CY7C19920ZC	IC	2	
IC857,58	74F244SJ	IC	2	
L1,L2	VLP0133	COIL	2	
L51,52	VLP0133	COIL	2	
L251-54	VL00319K101	COIL 100UH	4	
L255	VL00133J471	COIL 470UH	1	
L256	VL00319K101	COIL 100UH	1	
L301,02	VL00319K101	COIL 100UH	2	
L351,52	VL00319K101	COIL 100UH	2	
L354	VL00163J270	COIL 27UH	1	
L355	VL00163J6R8	COIL 6.8UH	1	
L356	VL00163J5R6	COIL 5.6UH	1	
L401	VL00319K101	COIL 100UH	1	
L451-55	VL00319K101	COIL 100UH	5	
L456	VL00163J470	COIL 47UH	1	
L457,58	VL00163J560	COIL 56UH	2	
L501	VL00133J391	COIL 390UH	1	
L551	VL00163J3R3	COIL 3.3UH	1	
L601,02	VL00319K101	COIL 100UH	2	
L651	VL00133J821	COIL 820UH	1	
L652	VL00319K101	COIL 100UH	1	
L701	VL00133J821	COIL 820UH	1	
L751	VL00133J821	COIL 820UH	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
Q251	2SB709A-R	TRANSISTOR	1	
Q252,53	2SD601A-R	TRANSISTOR	2	
Q301	2SB709A-R	TRANSISTOR	1	
Q302	2SD601A-R	TRANSISTOR	1	
Q303	2SK198-R	TRANSISTOR	1	
Q351	2SD601A-R	TRANSISTOR	1	
Q352	2SB709A-R	TRANSISTOR	1	
Q401,02	2SD601A-R	TRANSISTOR	2	
Q451-54	2SD601A-R	TRANSISTOR	4	
Q455-58	2SB709A-R	TRANSISTOR	4	
Q459-67	2SD601A-R	TRANSISTOR	9	
Q551	2SC3757-R	TRANSISTOR	1	
Q552,53	2SA1226E34	TRANSISTOR	2	
Q554	2SC3757-R	TRANSISTOR	1	
Q601-03	2SB709A-R	TRANSISTOR	3	
Q606-08	2SD601A-R	TRANSISTOR	3	
Q651	2SD601A-R	TRANSISTOR	1	
Q652-54	2SB709A-R	TRANSISTOR	3	
Q655	2SD601A-R	TRANSISTOR	1	
Q656	2SK198-R	TRANSISTOR	1	
Q701	2SD601A-R	TRANSISTOR	1	
Q702	2SB709A-R	TRANSISTOR	1	
Q703	2SD601A-R	TRANSISTOR	1	
Q704	2SB709A-R	TRANSISTOR	1	
Q705	2SD601A-R	TRANSISTOR	1	
Q706	2SK198-R	TRANSISTOR	1	
Q751	2SD601A-R	TRANSISTOR	1	
Q752	2SB709A-R	TRANSISTOR	1	
Q753	2SD601A-R	TRANSISTOR	1	
Q754	2SB709A-R	TRANSISTOR	1	
Q755	2SD601A-R	TRANSISTOR	1	
Q756	2SK198-R	TRANSISTOR	1	
QR151	MUN2212	TRANSISTOR-RESISTOR	1	
QR501	MUN2212	TRANSISTOR-RESISTOR	1	
R2-R8	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	7	
R10-22	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	13	
R24-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	32	
R101-12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	12	
R113	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R115	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R118,19	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R159,60	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R217	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R251	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R252	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R253	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R254	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R255	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R256	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R257	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R258,59	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R260	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R261	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R262,63	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R264	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R265	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R266	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R269	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R270	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R271-73	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R274	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R275	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R276	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R277	ERDS2TJ392	C.RESISTOR 1/4W 3.9K	1	
R301	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R302	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R303	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R304	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R305	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R307	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R308	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R309,10	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R311	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R313,14	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R316,17	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R318	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R319	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R353	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R354	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R355	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R356	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R357	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	1	
R358	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R359	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R360	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R362	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	1	
R363	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R365	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R366	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R367	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R368	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R369	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R370	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R371	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R373	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R375	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R376	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R377	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R379	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R380	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R381,82	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R384	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R385	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R386	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R387	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R390	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R393,94	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R395	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R401	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R402	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R404	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R405	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R406	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R407	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R408	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R409	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R410-12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R413	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R414	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R415	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R416	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R417	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R418	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R419	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R420,21	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R422	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R423,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R426,27	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R428	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R429	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R430	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R431,32	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R433,34	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R435,36	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R441,42	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R451	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R452	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R453	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R454	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R455	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R456	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R457	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R458,59	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R460,61	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R462	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R463	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R464,65	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R466	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R467	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R468,69	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	2	
R470	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R471-74	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	4	
R475-78	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R479	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R480,81	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R482,83	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R484,85	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R486,87	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R488-91	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R492-99	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	8	
R500-03	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R504-07	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R508-11	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R512-15	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R516-19	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	4	
R520-23	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R526	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R527	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R528	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R530	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R531	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R534	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R535	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1	
R536-38	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R539	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R541	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R542	ERDS2TJ392	C.RESISTOR 1/4W 3.9K	1	
R546	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R547	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R548	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R551	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R552	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R553	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R554	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R555	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R556	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R557,58	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R559,60	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R561	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R562,63	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	2	
R564	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R565	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R566	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R567	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R571	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R572	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R573,74	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R575	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R576	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R577	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R578	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R579	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R581	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R582	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R583,84	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R586	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R601-03	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R604-06	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	3	
R607	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R609,10	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R616-18	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	3	
R651	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R652	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R653	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R654	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R655	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R656	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R657	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R658	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R659	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R660	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R661	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R662	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R664,65	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R666	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R667	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R668,69	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R670	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R671	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R672	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R673	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R674	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R675	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R676	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R701	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R702	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R703	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R704	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R705,06	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R707,08	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R709	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R710	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R711	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R712	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R713	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R714	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R715	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R717	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R718	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R719	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R720	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R721,22	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R723	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R724	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R725	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R726	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R727,28	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	2	
R729	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R751	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R752	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R753	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R754	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R755,56	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R757,58	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R759	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R760	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R761	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R762	ERJ6GEYG394	M.RESISTOR CH 1/10W 390K	1	
R763	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R764	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R765	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R767	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R768	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R769	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R770	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R771,72	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R773	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R774	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R775	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R776	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R777,78	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	2	
R779	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R801	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R803	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R806	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R808-15	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	8	
R816-22	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	7	
R823	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R851	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R852	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R853	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R870-73	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
TG1-G6	VJR0646	TEST POINT	6	
TP301	VJR0646	TEST POINT	1	
TP401	VJR0646	TEST POINT	1	
TP402	EYF6CU	TEST POINT	1	
TP403	VJR0646	TEST POINT	1	
TP405	VJR0646	TEST POINT	1	
TP451	VJR0646	TEST POINT	1	
TP551-53	VJR0646	TEST POINT	3	
TP651	VJR0646	TEST POINT	1	
TP701	VJR0646	TEST POINT	1	
TP751	VJR0646	TEST POINT	1	
VL551	VLQ0415	COIL	1	
VR251	VRV0112B502	V.RESISTOR 5K	1	
VR301	VRV0112B502	V.RESISTOR 5K	1	
VR351	VRV0112B101	V.RESISTOR 100K	1	
VR352	VRV0112B201	V.RESISTOR 200	1	
VR353,54	VRV0112B501	V.RESISTOR 500	2	
VR406,07	VRV0064B102	V.RESISTOR 1K	2	
VR408-10	VRV0112B502	V.RESISTOR 5K	3	
VR459-66	VRV0064B102	V.RESISTOR 1K	8	
VR551	VRV0112B202	V.RESISTOR 2K	1	
VR552	VRV0112B502	V.RESISTOR 5K	1	
VR651	VRV0064B102	V.RESISTOR 1K	1	
VR652	VRV0112B502	V.RESISTOR 5K	1	
VR701,02	VRV0064B102	V.RESISTOR 1K	2	
VR703	VRV0112B502	V.RESISTOR 5K	1	
VR751,52	VRV0064B102	V.RESISTOR 1K	2	
VR753	VRV0112B502	V.RESISTOR 5K	1	
X401	VSX0270	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E7	VEP84292A	F7 A PROC P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
C1,C2	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C3	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4,C5	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C6	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C7	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C8	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C10	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C20-23	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C25,26	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C27	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C30	ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C40	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C41	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C42	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C43-49	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	7	
C60-64	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C65	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C66	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C67	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C68-73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C80,81	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C82-86	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C87-89	ECEV1HV0R1Q	E.CAPACITOR CH 50V 0.1U	3	
C90	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C91	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C92	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C93	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C94	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C96,97	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C100-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C110-24	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	15	
C130-39	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	10	
FL2	VLF1016A470	FILTER	1	
IC1,C2	MC74HC541AF	IC	2	
IC4	MC10H125M	IC	1	
IC5	MC74HC153F	IC	1	
IC6,C7	MC74HC541AF	IC	2	
IC8	MC10H124M	IC	1	
IC9	MC74HC157AF	IC	1	
IC10	AD1893JST	IC	1	
IC11	K6256DLG7L	IC	1	
IC12	T16GH7AF1216	IC	1	
IC13	K6256DLG7L	IC	1	
IC14	MN53030VPR	IC	1	
IC15,16	K6256DLG7L	IC	2	
IC17	74AC04SJ	IC	1	
IC18,19	74AC374SJ	IC	2	
IC20	TMSD72274PH	IC	1	
IC23	MC74HC4075F	IC	1	
IC24	NJM78L05UA	IC	1	
IC25	MC4044M	IC	1	
IC26	74AC04SJ	IC	1	
IC27	NJM78L05UA	IC	1	
IC28	MC4044M	IC	1	
IC30,31	MC74HC541AF	IC	2	
IC34	MC74HC04AF	IC	1	
IC35	SN74S1051NS	IC	1	
IC36	74ALS541SJ	IC	1	
IC37	74ALS245ASJ	IC	1	
IC38	SN74S1051NS	IC	1	
IC39,40	74ALS541SJ	IC	2	
IC41	MC74HC32AF	IC	1	
IC42	MC74HC138AF	IC	1	
IC43	UPD71055GB	IC	1	
IC44,45	MC74HC74AF	IC	2	
IC46	MC74HC04AF	IC	1	
IC50	T74HCT541AF	IC	1	
IC51	MC74HC74AF	IC	1	
IC52	MC74HC157AF	IC	1	
IC53	MC74HC138AF	IC	1	
IC54	MC74HC08AF	IC	1	
IC55	MB621926	IC	1	
IC56	K6256DLG7L	IC	1	
IC57	MC74HC157AF	IC	1	
IC58	UPD71055GB	IC	1	
L1,L2	VLP0133	COIL	2	
L3	VLQ0426J1R8	COIL 1.8UH	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
P3	VJP3635A068	CONNECTOR (MALE)	1	
R1-R8	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R9	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R10	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R13,14	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R15-22	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R23	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R24,25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R26-28	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	3	
R29	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R30-36	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	7	
R37	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R38-45	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R46,47	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R48	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R50	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R51	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R52-56	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	5	
R57-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R60	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R61	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R62	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R66-69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R70-74	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	5	
R76	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R78	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R80,81	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R82	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R83	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R84,85	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R86,87	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R88-91	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R100	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R103,04	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R110-32	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	23	
R133-36	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	4	
R137-40	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R141-46	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	6	
R147-50	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R151-55	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	5	
R163-65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R170-78	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	9	
R180-85	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R187-90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R194-96	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
TG1-G3	VJR0646	TEST POINT	3	
TP1-P8	VJR0646	TEST POINT	8	
TP10-20	EYF6CU	TEST POINT	11	
X1	VSX0519	CRYSTAL OSCILLATOR	1	
X2	VSX0453	CRYSTAL OSCILLATOR	1	
X3	VSX0912	CRYSTAL OSCILLATOR	1	
X4	VSX0910	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E7	VEP84292D	F7 A PROC P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
C1,C2	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C3	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4,C5	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C6	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C7	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C8	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C9	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C10	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C20-23	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C25,26	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C27	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C30	ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C40	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C41	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C42	ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C43-49	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	7	
C60-64	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C65	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C66	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C67	ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C68-73	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C80,81	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C82-86	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	5	
C87-89	ECEV1HV0R1Q	E.CAPACITOR CH 50V 0.1U	3	
C90	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C91	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C92	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C93	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C94	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C96,97	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C100-02	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C110-24	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	15	
C130-39	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	10	
FL2	VLF1016A470	FILTER	1	
IC1,C2	MC74HC541AF	IC	2	
IC4	MC10H125M	IC	1	
IC5	MC74HC153F	IC	1	
IC6,C7	MC74HC541AF	IC	2	
IC8	MC10H124M	IC	1	
IC9	MC74HC157AF	IC	1	
IC10	AD1893JST	IC	1	
IC11	K6256DLG7L	IC	1	
IC12	T16GH7AF1216	IC	1	
IC13	K6256DLG7L	IC	1	
IC14	MN53030VPR	IC	1	
IC15,16	K6256DLG7L	IC	2	
IC17	74AC04SJ	IC	1	
IC18,19	74AC374SJ	IC	2	
IC20	TMSD72274PH	IC	1	
IC23	MC74HC4075F	IC	1	
IC24	NJM78L05UA	IC	1	
IC25	MC4044M	IC	1	
IC26	74AC04SJ	IC	1	
IC27	NJM78L05UA	IC	1	
IC28	MC4044M	IC	1	
IC30,31	MC74HC541AF	IC	2	
IC34	MC74HC04AF	IC	1	
IC35	SN74S1051NS	IC	1	
IC36	74ALS541SJ	IC	1	
IC37	74ALS245ASJ	IC	1	
IC38	SN74S1051NS	IC	1	
IC39,40	74ALS541SJ	IC	2	
IC41	MC74HC32AF	IC	1	
IC42	MC74HC138AF	IC	1	
IC43	UPD71055GB	IC	1	
IC44,45	MC74HC74AF	IC	2	
IC46	MC74HC04AF	IC	1	
IC50	T74HCT541AF	IC	1	
IC51	MC74HC74AF	IC	1	
IC52	MC74HC157AF	IC	1	
IC53	MC74HC138AF	IC	1	
IC54	MC74HC08AF	IC	1	
IC55	MB621926	IC	1	
IC56	K6256DLG7L	IC	1	
IC57	MC74HC157AF	IC	1	
IC58	UPD71055GB	IC	1	
L1,L2	VLP0133	COIL	2	
L3	VLQ0426J1R8	COIL 1.8UH	1	
P1,P2	VJP3454B096	CONNECTOR (MALE)	2	
P3	VJP3635A068	CONNECTOR (MALE)	1	
R1-R8	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R9	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R10	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R13,14	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R15-22	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R23	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R24,25	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R26-28	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	3	
R29	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R30-36	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	7	
R37	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R38-45	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	8	
R46,47	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R48	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R50	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R51	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R52-56	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	5	
R57-59	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R60	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R61	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R62	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R66-69	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R70-74	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	5	
R76	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R78	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R80,81	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R82	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R83	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R84,85	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R86,87	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R88-91	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R100	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R103,04	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R110-32	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	23	
R133-36	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	4	
R137-40	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R141-46	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	6	
R147-50	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	4	
R151-55	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	5	
R163-65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R170-78	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	9	
R180-85	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	6	
R187-90	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R194-96	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
TG1-G3	VJR0646	TEST POINT	3	
TP1-P8	VJR0646	TEST POINT	8	
TP10-20	EYF6CU	TEST POINT	11	
X1	VSX0519	CRYSTAL OSCILLATOR	1	
X2	VSX0453	CRYSTAL OSCILLATOR	1	
X3	VSX0912	CRYSTAL OSCILLATOR	1	
X4	VSX0910	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E8	VEP84293A	F8 ADDA/CUE P.C.BOARD	1	(RTL)FOR AJ-D450P/D440P
C4001-04	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4005,06	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4007,08	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4009,10	ECEA1HGE330	E.CAPACITOR 50V 33U	2	
C4023,24	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4061-64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4065,66	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4067,68	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4069,70	ECEA1HGE330	E.CAPACITOR 50V 33U	2	
C4083,84	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4121	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4122	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C4123	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4124	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4125	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4126	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4127,28	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4129	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4130	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4131	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4132	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4133	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4134	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4135	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4136	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4137,38	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	2	
C4139,40	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	2	
C4141,42	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C4143,44	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	2	
C4145-48	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4149	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4150	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4151	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4152,53	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4154,55	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4158	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C4160	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C4162	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4163,64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4167	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4169	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4171	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4180	ECCF1H331J	C.CAPACITOR 50V 330P	1	
C4191	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4192	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4193	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4194-96	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4197	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4198	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4199	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4200	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4201-03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4204	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4205	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4206	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4208,09	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	2	
C4211	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4221-24	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4225,26	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4227	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4228,29	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4230,31	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C4232,33	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4234-37	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C4238,39	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4240	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4241	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4242,43	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4244,45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4246,47	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4248	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4249	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4250,51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4281	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4282,83	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4284,85	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C4286,87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4288-91	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C4292,93	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4294	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4295	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4296,97	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4298,99	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4300,01	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4302	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4303	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4304,05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4341	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4342,43	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4344-47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4348,49	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	2	
C4350,51	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4352	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4353,54	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4355,56	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4357,58	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4359,60	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4381	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4382	ECUV1H822KBN	E.CAPACITOR CH 50V 8200U	1	
C4383	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4384	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4385	VCC0030	C.CAPACITOR	1	
C4386	ECUV1H822KBN	E.CAPACITOR CH 50V 8200U	1	
C4387	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4388	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C4389	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C4390	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C4391	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C4392	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4393	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4394	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C4395	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4396	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4397	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4398	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4399	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4400	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4401,02	ECHU1C104JB	P.CAPACITOR 16V 0.1U	2	
C4403	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C4404	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4405	ECHU1C104JB	P.CAPACITOR 16V 0.1U	1	
C4406	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4407	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4408	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4409	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4410	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4411	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C4412	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C4413	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4414	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4415	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	1	
C4416,17	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4418,19	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4420,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4422	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4423	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4424,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4426,27	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4428	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4429	ECHU1C104JB	P.CAPACITOR 16V 0.1U	1	
C4430	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4461,62	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C4463	ECEV0JV220Q	E.CAPACITOR CH6.3V 22U	1	
C4464	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4465-67	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	3	
C4468	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4469-72	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4473	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4474,75	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4501-03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4504	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4505,06	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C4507	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4508,09	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	2	
C4510	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4511	ECEV1HV4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C4512	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4513	VCF2JAB681J	C.CAPACITOR 630V 680P	1	
C4514,15	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C4516,17	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4518	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4519	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4521	VCF2GAB682J	C.CAPACITOR 400V 6800P	1	
C4522	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4523	VCF2GAB682J	C.CAPACITOR 400V 6800P	1	
C4524	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4551	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4552	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4553-56	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C4558	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4559,60	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D4001,02	MA157	DIODE	2	
D4061,62	MA157	DIODE	2	
D4221,22	MA157	DIODE	2	
D4281,82	MA157	DIODE	2	
D4341	MA157	DIODE	1	
D4342-44	MA152WK	DIODE	3	
D4461	MA152A	DIODE	1	
D4501-03	MA152A	DIODE	3	
FL4381	EIR7QF012B	TRANSFORMER	1	
FL4382	VLF1069	FILTER	1	
FL4501,02	VLF0941C223	FILTER	2	
FL4551	VLF0941C223	FILTER	1	
IC4001	NJM78L09UA	IC	1	
IC4002	NJM79L09UA	IC	1	
IC4003,04	NJM4580ED	IC	2	
IC4005	MC14052BF	IC	1	
IC4006	NJM4580ED	IC	1	
IC4008	MC14053BF	IC	1	
IC4061	NJM78L09UA	IC	1	
IC4062	NJM79L09UA	IC	1	
IC4063,64	NJM4580ED	IC	2	
IC4065	MC14052BF	IC	1	
IC4066	NJM4580ED	IC	1	
IC4068	MC14053BF	IC	1	
IC4121,22	NJM2100MD	IC	2	
IC4123	T74VHC244F	IC	1	
IC4124	NJM78L05UA	IC	1	
IC4125-27	XC62AP3002P	IC	3	
IC4128	AK4503VF	IC	1	
IC4129	NJM4580ED	IC	1	
IC4131	T74VHCT244F	IC	1	
IC4191	NJM78L05UA	IC	1	
IC4192	MC74HC541AF	IC	1	
IC4193	AK4320VM	IC	1	
IC4194,95	NJM4580ED	IC	2	
IC4221	NJM78L05UA	IC	1	
IC4222	NJM79L05UA	IC	1	
IC4223	NJM4580ED	IC	1	
IC4224	MC14052BF	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC4225	NJM2043MD	IC	1	
IC4226	MC14053BF	IC	1	
IC4281	NJM4580ED	IC	1	
IC4282	MC14052BF	IC	1	
IC4283	NJM2043MD	IC	1	
IC4284	MC14053BF	IC	1	
IC4341,42	NJM4580ED	IC	2	
IC4343	NJM4556AM	IC	1	
IC4344	MC14052BF	IC	1	
IC4345	NJM4580ED	IC	1	
IC4381	NJM4580ED	IC	1	
IC4382	MC14053BF	IC	1	
IC4383	CXA1102M	IC	1	
IC4384,85	NJM4580ED	IC	2	
IC4386	MC14052BF	IC	1	
IC4388	NJM4580ED	IC	1	
IC4389	AN78N09	IC	1	
IC4390	AN79N09	IC	1	
IC4391,92	NJM4580ED	IC	2	
IC4461-63	NJM4580ED	IC	3	
IC4464	NJM78L05UA	IC	1	
IC4465	NJM79L05UA	IC	1	
IC4466	MC14053BF	IC	1	
IC4501	AN78N09	IC	1	
IC4551,52	SN74S1051NS	IC	2	
IC4553	74ALS245ASJ	IC	1	
IC4554	74ALS541SJ	IC	1	
IC4555	74F04SJ	IC	1	
IC4556	74AC139SJ	IC	1	
IC4557,58	UPD71055GB	IC	2	
L4121	VLQ0163J100	COIL 10UH	1	
L4191	VLQ0163J100	COIL 10UH	1	
L4381	VLQ0423J472	COIL 4700UH	1	
P4001,02	VJP3454B096	CONNECTOR (MALE)	2	
Q4221	2SD1994A-R	TRANSISTOR	1	
Q4222	2SB1322A-R	TRANSISTOR	1	
Q4223	2SD1994A-R	TRANSISTOR	1	
Q4224	2SB1322A-R	TRANSISTOR	1	
Q4225	2SD602A-R	TRANSISTOR	1	
Q4226-29	2SD1328	TRANSISTOR	4	
Q4230	2SB710A-R	TRANSISTOR	1	
Q4281	2SD1994A-R	TRANSISTOR	1	
Q4282	2SB1322A-R	TRANSISTOR	1	
Q4283	2SD1994A-R	TRANSISTOR	1	
Q4284	2SB1322A-R	TRANSISTOR	1	
Q4285	2SD602A-R	TRANSISTOR	1	
Q4286-89	2SD1328	TRANSISTOR	4	
Q4290	2SB710A-R	TRANSISTOR	1	
Q4341-44	2SB710A-R	TRANSISTOR	4	
Q4345,46	2SD1328	TRANSISTOR	2	
Q4347	2SD602A-R	TRANSISTOR	1	
Q4348	2SD1328	TRANSISTOR	1	
Q4350	2SB710A-R	TRANSISTOR	1	
Q4381,82	2SD1149-R	TRANSISTOR	2	
Q4383	2SB792-R	TRANSISTOR	1	
Q4384,85	2SD602A-R	TRANSISTOR	2	
Q4386	2SB710A-R	TRANSISTOR	1	
Q4461-63	2SD1328	TRANSISTOR	3	
Q4501	2SB710A-R	TRANSISTOR	1	
Q4502	2SD602A-R	TRANSISTOR	1	
Q4503	2SB710A-R	TRANSISTOR	1	
Q4504-06	2SD602A-R	TRANSISTOR	3	
Q4507	2SB710A-R	TRANSISTOR	1	
Q4508	2SD602A-R	TRANSISTOR	1	
Q4509	2SB710A-R	TRANSISTOR	1	
Q4510-13	2SD602A-R	TRANSISTOR	4	
QR4191	UN2213	TRANSISTOR-RESISTOR	1	
QR4341,42	UN2213	TRANSISTOR-RESISTOR	2	
QR4381,82	UN2213	TRANSISTOR-RESISTOR	2	
R4001	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4002	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4003	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4004	ERJ12YJ621	M.RESISTOR CH 1/2W 620	1	
R4005	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4006	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4007	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4008,09	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	2	
R4010,11	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	2	
R4016	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4017	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4018	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4019	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4020	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4021	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4022	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4023	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4029,30	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4032	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4034	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4036,37	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R4040	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4041	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4043	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4045	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4046,47	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4048	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4049-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	7	
R4061	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4062	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4063	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4064	ERJ12YJ621	M.RESISTOR CH 1/2W 620	1	
R4065	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4066	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4067	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4068,69	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	2	
R4070,71	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	2	
R4076	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4077	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4078	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4079	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4080	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4081	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4082	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4083	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4089,90	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4092	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4094	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4096,97	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R4100	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4101	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4103	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4105	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4106,07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4108	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4109-15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	7	
R4121,22	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R4123,24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4125,26	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R4127-30	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4131,32	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R4133-38	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	6	
R4139-42	ERJ6RBD471	M.RESISTOR CH 1/10W 470	4	
R4143	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4144,45	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R4146,47	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R4150	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4152	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4154	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4156,57	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R4160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4161	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4162	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4164	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4165	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4167	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4168-70	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4191	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4192,93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R4194	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4195-97	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4198	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4199-01	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4203	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4204,05	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R4206,07	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R4210,11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4213	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4214,15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4217	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4219	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4221	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4222	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4223	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4224	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4225	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4226	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4227	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4228	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4229	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4230	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4231	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4232	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4233-36	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4237,38	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R4239,40	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4241	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4242	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4243	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4244	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4245-48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	4	
R4249	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4250-53	ERJ14YJ100	M.RESISTOR CH 1/4W 10	4	
R4254	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4255,56	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4257,58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4259	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4260,61	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4262	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4263-66	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R4267-70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R4281	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4282	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4283	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4284	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4285	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4286	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4287	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4288	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4289	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4290	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4291	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4292	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4293-96	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4297,98	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R4299,00	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4301	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4302	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4303	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4304	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4305-08	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	4	
R4309	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4310-13	ERJ14YJ100	M.RESISTOR CH 1/4W 10	4	
R4314	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4315,16	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4317,18	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4319	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4320,21	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4322	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4323-26	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R4327-30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4341,42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4343	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4344	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4346	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4347-50	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R4351,52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4353	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4354	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4355	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4356-58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4359	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4360	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4362-64	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4365	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4366	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4367	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4368	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4369	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4371,72	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4374	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R4375	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4376	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R4377	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4381,82	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R4383	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R4384	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4385	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4386	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4387	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4388	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4389	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4390	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4391,92	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4393	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4394	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4395,96	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4397	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4398	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R4399	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4400	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4401	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4402	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4404	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4405	ERJ6GEYF124	M.RESISTOR CH 1/10W 120K	1	
R4406	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4407	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4408	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4409	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4410	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4411	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R4412	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4413	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R4414	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4415	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R4416	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4417	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4418	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4419	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4420	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4422	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R4423	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4424	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R4425	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R4426	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4427	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R4428	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4429	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4431	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4433	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4434	ERJ6RBD433	M.RESISTOR CH 1/10W 43K	1	
R4435	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4436	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4437	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4439	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4441	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4442-44	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4445	ERJ6RBD202	M.RESISTOR CH 1/10W 2K	1	
R4446	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4447	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4448	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4449	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4450	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4451	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4461	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R4462	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R4463	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R4464	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4465	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4466	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4467	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4468	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R4470	ERJ6RBD243	M.RESISTOR CH 1/10W 24K	1	
R4472	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4473	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4474	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4476	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4477	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4478	ERJ6RED124	M.RESISTOR CH 1/10W 120K	1	
R4479	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4480	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4481	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4482-84	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4485	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4486	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R4487,88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4489	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4491,92	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4493	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R4494	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4495	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R4501	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4502	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4503,04	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R4505	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4506	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4507	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4508	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4509	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R4510	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4511	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R4512	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4513	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4514	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R4515	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R4516,17	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R4518	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4519	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4520	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4521	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4522,23	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4524	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R4525,26	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4527	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R4528	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4529	ERJ6GEYG180	M.RESISTOR CH 1/10W 18	1	
R4530,31	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R4532	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4533	ERJ6GEYG180	M.RESISTOR CH 1/10W 18	1	
R4534	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4535	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R4551,52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4553,54	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4555-62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
SW4001	VSS0126	SWITCH	1	
SW4061	VSS0126	SWITCH	1	
SW4381	VSS0367-04B	SWITCH	1	
SW4382	VSS0342	SWITCH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
T4501	VLT0866	TRANSFORMER	1	
T4502	VLT0868	TRANSFORMER	1	
T4503,04	VLT0867	TRANSFORMER	2	
TG4121,22	VJR0646	TEST POINT	2	
TG4191,92	VJR0646	TEST POINT	2	
TG4461	VJR0646	TEST POINT	1	
TG4501	VJR0646	TEST POINT	1	
TP4121-26	VJR0646	TEST POINT	6	
TP4191-93	VJR0646	TEST POINT	3	
TP4221	VJR0646	TEST POINT	1	
TP4281	VJR0646	TEST POINT	1	
TP4381-83	VJR0646	TEST POINT	3	
TP4501,02	VJR0646	TEST POINT	2	
VR4002	VRV0112B103	V.RESISTOR 10K	1	
VR4062	VRV0112B103	V.RESISTOR 10K	1	
VR4221	VRV0112B103	V.RESISTOR 10K	1	
VR4281	VRV0112B103	V.RESISTOR 10K	1	
VR4341	VRV0112B103	V.RESISTOR 10K	1	
VR4381	VRV0112B103	V.RESISTOR 10K	1	
VR4382	VRV0064B503	V.RESISTOR 50K	1	
VR4383	VRV0112B502	V.RESISTOR 5K	1	
VR4384	VRV0112B103	V.RESISTOR 10K	1	
VR4385	VRV0112B203	V.RESISTOR 20K	1	
VR4501	VRV0112B104	V.RESISTOR 100K	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E8	VEP84293B	F8 ADDA/CUE P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
C4001-04	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4005,06	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4007,08	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4009,10	ECEA1HGE330	E.CAPACITOR 50V 33U	2	
C4023,24	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4061-64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4065,66	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4067,68	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4069,70	ECEA1HGE330	E.CAPACITOR 50V 33U	2	
C4083,84	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4121	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4122	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C4123	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4124	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4125	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4126	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4127,28	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4129	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4130	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4131	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4132	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4133	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4134	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4135	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C4136	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4137,38	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	2	
C4139,40	ECUM1H820JCN	C.CAPACITOR CH 50V 82P	2	
C4141,42	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C4143,44	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	2	
C4145-48	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4149	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4150	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4151	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4152,53	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4154,55	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4158	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C4160	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C4162	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4163,64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4167	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4169	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4171	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4180	ECCF1H331J	C.CAPACITOR 50V 330P	1	
C4191	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4192	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4193	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4194-96	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4197	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4198	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4199	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4200	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4201-03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4204	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4205	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4206	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4208,09	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	2	
C4211	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4221-24	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4225,26	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4227	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4228,29	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4230,31	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C4232,33	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4234-37	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C4238,39	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4240	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4241	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4242,43	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4244,45	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4246,47	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4248	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4249	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4250,51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4281	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4282,83	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4284,85	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	2	
C4286,87	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4288-91	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	4	
C4292,93	ECEA1CGE221	E.CAPACITOR 16V 220U	2	
C4294	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4295	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4296,97	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4298,99	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4300,01	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4302	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4303	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4304,05	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4341	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4342,43	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4344-47	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4348,49	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	2	
C4350,51	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4352	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C4353,54	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4355,56	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4357,58	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4359,60	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4381	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4382	ECUV1H822KBN	E.CAPACITOR CH 50V 8200U	1	
C4383	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4384	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4385	VCC0030	C.CAPACITOR	1	
C4386	ECUV1H822KBN	E.CAPACITOR CH 50V 8200U	1	
C4387	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4388	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C4389	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C4390	ECUV1H151JCN	C.CAPACITOR CH 50V 150U	1	
C4391	ECUM1H272KBN	C.CAPACITOR CH 50V 2700P	1	
C4392	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4393	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4394	ECUM1H390JCN	C.CAPACITOR CH 50V 39P	1	
C4395	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4396	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4397	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4398	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4399	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4400	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4401,02	ECHU1C104JB	P.CAPACITOR 16V 0.1U	2	
C4403	ECUM1C224KBM	C.CAPACITOR CH 16V 0.22U	1	
C4404	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4405	ECHU1C104JB	P.CAPACITOR 16V 0.1U	1	
C4406	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	1	
C4407	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4408	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4409	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4410	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4411	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C4412	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C4413	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4414	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C4415	ECST1VY684Z	T.CAPACITOR CH 35V 0.68U	1	
C4416,17	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C4418,19	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	2	
C4420,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4422	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4423	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4424,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4426,27	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C4428	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	1	
C4429	ECHU1C104JB	P.CAPACITOR 16V 0.1U	1	
C4430	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4461,62	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	2	
C4463	ECEV0JV220Q	E.CAPACITOR CH6.3V 22U	1	
C4464	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4465-67	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	3	
C4468	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4469-72	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C4473	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4474,75	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4501-03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C4504	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4505,06	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C4507	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4508,09	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	2	
C4510	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C4511	ECEV1HV4R7Q	E.CAPACITOR CH 50V 4.7U	1	
C4512	ECUX1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C4513	VCF2JAB681J	C.CAPACITOR 630V 680P	1	
C4514,15	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C4516,17	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C4518	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4519	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4520	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4521	VCF2GAB682J	C.CAPACITOR 400V 6800P	1	
C4522	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C4523	VCF2GAB682J	C.CAPACITOR 400V 6800P	1	
C4524	ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4551	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C4552	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C4553-56	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	4	
C4558	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4559,60	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
D4001,02	MA157	DIODE	2	
D4061,62	MA157	DIODE	2	
D4221,22	MA157	DIODE	2	
D4281,82	MA157	DIODE	2	
D4341	MA157	DIODE	1	
D4342-44	MA152WK	DIODE	3	
D4461	MA152A	DIODE	1	
D4501-03	MA152A	DIODE	3	
FL4381	EIR7QF012B	TRANSFORMER	1	
FL4382	VLF1069	FILTER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL4501,02	VLF0941C223	FILTER	2	
FL4551	VLF0941C223	FILTER	1	
IC4001	NJM78L09UA	IC	1	
IC4002	NJM79L09UA	IC	1	
IC4003,04	NJM4580ED	IC	2	
IC4005	MC14052BF	IC	1	
IC4006	NJM4580ED	IC	1	
IC4008	MC14053BF	IC	1	
IC4061	NJM78L09UA	IC	1	
IC4062	NJM79L09UA	IC	1	
IC4063,64	NJM4580ED	IC	2	
IC4065	MC14052BF	IC	1	
IC4066	NJM4580ED	IC	1	
IC4068	MC14053BF	IC	1	
IC4121,22	NJM2100MD	IC	2	
IC4123	T74VHC244F	IC	1	
IC4124	NJM78L05UA	IC	1	
IC4125-27	XC62AP3002P	IC	3	
IC4128	AK4503VF	IC	1	
IC4129	NJM4580ED	IC	1	
IC4131	T74VHCT244F	IC	1	
IC4191	NJM78L05UA	IC	1	
IC4192	MC74HC541AF	IC	1	
IC4193	AK4320VM	IC	1	
IC4194,95	NJM4580ED	IC	2	
IC4221	NJM78L05UA	IC	1	
IC4222	NJM79L05UA	IC	1	
IC4223	NJM4580ED	IC	1	
IC4224	MC14052BF	IC	1	
IC4225	NJM2043MD	IC	1	
IC4226	MC14053BF	IC	1	
IC4281	NJM4580ED	IC	1	
IC4282	MC14052BF	IC	1	
IC4283	NJM2043MD	IC	1	
IC4284	MC14053BF	IC	1	
IC4341,42	NJM4580ED	IC	2	
IC4343	NJM4556AM	IC	1	
IC4344	MC14052BF	IC	1	
IC4345	NJM4580ED	IC	1	
IC4381	NJM4580ED	IC	1	
IC4382	MC14053BF	IC	1	
IC4383	CXA1102M	IC	1	
IC4384,85	NJM4580ED	IC	2	
IC4386	MC14052BF	IC	1	
IC4388	NJM4580ED	IC	1	
IC4389	AN78N09	IC	1	
IC4390	AN79N09	IC	1	
IC4391,92	NJM4580ED	IC	2	
IC4461-63	NJM4580ED	IC	3	
IC4464	NJM78L05UA	IC	1	
IC4465	NJM79L05UA	IC	1	
IC4466	MC14053BF	IC	1	
IC4501	AN78N09	IC	1	
IC4551,52	SN74S1051NS	IC	2	
IC4553	74ALS245ASJ	IC	1	
IC4554	74ALS541SJ	IC	1	
IC4555	74F04SJ	IC	1	
IC4556	74AC139SJ	IC	1	
IC4557,58	UPD71055GB	IC	2	
L4121	VLQ0163J100	COIL 10UH	1	
L4191	VLQ0163J100	COIL 10UH	1	
L4381	VLQ0423J472	COIL 4700UH	1	
P4001,02	VJP3454B096	CONNECTOR (MALE)	2	
Q4221	2SD1994A-R	TRANSISTOR	1	
Q4222	2SB1322A-R	TRANSISTOR	1	
Q4223	2SD1994A-R	TRANSISTOR	1	
Q4224	2SB1322A-R	TRANSISTOR	1	
Q4225	2SD602A-R	TRANSISTOR	1	
Q4226-29	2SD1328	TRANSISTOR	4	
Q4230	2SB710A-R	TRANSISTOR	1	
Q4281	2SD1994A-R	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q4282	2SB1322A-R	TRANSISTOR	1	
Q4283	2SD1994A-R	TRANSISTOR	1	
Q4284	2SB1322A-R	TRANSISTOR	1	
Q4285	2SD602A-R	TRANSISTOR	1	
Q4286-89	2SD1328	TRANSISTOR	4	
Q4290	2SB710A-R	TRANSISTOR	1	
Q4341-44	2SB710A-R	TRANSISTOR	4	
Q4347	2SD602A-R	TRANSISTOR	1	
Q4348	2SD1328	TRANSISTOR	1	
Q4350	2SB710A-R	TRANSISTOR	1	
Q4381, 82	2SD1149-R	TRANSISTOR	2	
Q4383	2SB792-R	TRANSISTOR	1	
Q4384, 85	2SD602A-R	TRANSISTOR	2	
Q4386	2SB710A-R	TRANSISTOR	1	
Q4461-63	2SD1328	TRANSISTOR	3	
Q4501	2SB710A-R	TRANSISTOR	1	
Q4502	2SD602A-R	TRANSISTOR	1	
Q4503	2SB710A-R	TRANSISTOR	1	
Q4504-06	2SD602A-R	TRANSISTOR	3	
Q4507	2SB710A-R	TRANSISTOR	1	
Q4508	2SD602A-R	TRANSISTOR	1	
Q4509	2SB710A-R	TRANSISTOR	1	
Q4510-13	2SD602A-R	TRANSISTOR	4	
QR4191	UN2213	TRANSISTOR-RESISTOR	1	
QR4341, 42	UN2213	TRANSISTOR-RESISTOR	2	
QR4381, 82	UN2213	TRANSISTOR-RESISTOR	2	
R4001	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4002	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4003	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4004	ERJ12YJ621	M.RESISTOR CH 1/2W 620	1	
R4005	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4006	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4007	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4008, 09	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	2	
R4010, 11	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	2	
R4016	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4017	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4018	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4019	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4020	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4021	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4022	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4023	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4029, 30	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4032	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4034	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4036, 37	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R4040	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4041	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4043	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4045	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4046, 47	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4048	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4049-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	7	
R4061	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4062	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4063	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4064	ERJ12YJ621	M.RESISTOR CH 1/2W 620	1	
R4065	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4066	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R4067	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4068, 69	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	2	
R4070, 71	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	2	
R4076	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4077	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4078	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4079	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4080	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	1	
R4081	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R4082	ERJ6RHD2101	M.RESISTOR CH 1/10W 2.1K	1	
R4083	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R4089, 90	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	2	
R4092	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4094	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4096, 97	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R4100	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4101	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4103	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4105	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4106, 07	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4108	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R4109-15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	7	
R4121, 22	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R4123, 24	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4125, 26	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R4127-30	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4131, 32	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R4133-38	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	6	
R4139-42	ERJ6RBD471	M.RESISTOR CH 1/10W 470	4	
R4143	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4144, 45	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	2	
R4146, 47	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R4150	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4152	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4154	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4156, 57	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R4160	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4161	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4162	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4164	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4165	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4167	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4168-70	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4191	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4192, 93	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R4194	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4195-97	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4198	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4199-01	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	3	
R4203	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4204, 05	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R4206, 07	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R4210, 11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4213	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4214, 15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4217	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4219	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4221	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4222	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4223	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4224	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4225	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4226	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4227	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4228	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4229	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4230	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4231	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4232	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4233-36	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4237, 38	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R4239, 40	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4241	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4242	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4243	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4244	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4245-48	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	4	
R4249	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4250-53	ERJ14YJ100	M.RESISTOR CH 1/4W 10	4	
R4254	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4255, 56	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4257, 58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4259	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4260, 61	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4262	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4263-66	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R4267-70	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R4281	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4282	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4283	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4284	ERJ6RBD301	M.RESISTOR CH 1/10W 300	1	
R4285	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4286	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4287	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4288	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R4289	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R4290	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4291	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4292	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4293-96	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	4	
R4297,98	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R4299,00	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R4301	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4302	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4303	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4304	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4305-08	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	4	
R4309	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R4310-13	ERJ14YJ100	M.RESISTOR CH 1/4W 10	4	
R4314	ERJ6RED150	M.RESISTOR CH 1/10W 15	1	
R4315,16	ERJ14YJ220	M.RESISTOR CH 1/4W 22	2	
R4317,18	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4319	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4320,21	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4322	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4323-26	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R4327-30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R4341,42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4343	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4344	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4345	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R4346	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4347-50	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	4	
R4351,52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4353	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4355	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4357,58	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4359	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4360	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4362-64	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4365	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4366	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4367	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4368	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4369	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4371,72	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4374	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R4375	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4376	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R4377	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4381,82	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R4383	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R4384	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4385	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4386	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4387	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4388	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4389	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4390	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4391,92	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4393	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4394	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4395,96	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4397	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4398	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R4399	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4400	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4401	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4402	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4403	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4404	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R4405	ERJ6GEYF124	M.RESISTOR CH 1/10W 120K	1	
R4406	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4407	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4408	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4409	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4410	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4411	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R4412	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4413	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R4414	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4415	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R4416	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4417	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4418	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4419	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4420	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4422	ERJ6RBD152	M.RESISTOR CH 1/10W 1.5K	1	
R4423	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4424	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R4425	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R4426	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4427	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R4428	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4429	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4431	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4433	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4434	ERJ6RBD433	M.RESISTOR CH 1/10W 43K	1	
R4435	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R4436	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4437	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4439	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4441	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4442-44	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4445	ERJ6RBD202	M.RESISTOR CH 1/10W 2K	1	
R4446	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4447	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4448	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4449	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4450	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4451	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4461	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R4462	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4463	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R4464	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R4465	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R4466	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4467	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4468	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R4470	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R4472	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4473	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R4474	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R4475	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R4476	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R4477	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R4478	ERJ6RED124	M.RESISTOR CH 1/10W 120K	1	
R4479	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4480	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R4481	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R4482-84	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R4485	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4486	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R4487,88	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4489	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4491,92	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4493	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R4494	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R4495	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R4501	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4502	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4503,04	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R4505	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4506	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R4507	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4508	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4509	ERJ6GEYF333	M.RESISTOR CH 1/10W 33K	1	
R4510	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4511	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R4512	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R4513	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4514	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R4515	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R4516,17	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	2	
R4518	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4519	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4520	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R4521	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R4522,23	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4524	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R4525,26	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R4527	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R4528	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4529	ERJ6GEYG180	M.RESISTOR CH 1/10W 18	1	
R4530,31	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R4532	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4533	ERJ6GEYG180	M.RESISTOR CH 1/10W 18	1	
R4534	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4535	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R4551,52	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R4553,54	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4555-62	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
SW4001	VSS0126	SWITCH	1	
SW4061	VSS0126	SWITCH	1	
SW4381	VSS0367-04B	SWITCH	1	
SW4382	VSS0342	SWITCH	1	
T4501	VLT0866	TRANSFORMER	1	
T4502	VLT0868	TRANSFORMER	1	
T4503,04	VLT0867	TRANSFORMER	2	
TG4121,22	VJR0646	TEST POINT	2	
TG4191,92	VJR0646	TEST POINT	2	
TG4461	VJR0646	TEST POINT	1	
TG4501	VJR0646	TEST POINT	1	
TP4121-26	VJR0646	TEST POINT	6	
TP4191-93	VJR0646	TEST POINT	3	
TP4221	VJR0646	TEST POINT	1	
TP4281	VJR0646	TEST POINT	1	
TP4381-83	VJR0646	TEST POINT	3	
TP4501,02	VJR0646	TEST POINT	2	
VR4002	VRV0112B103	V.RESISTOR 10K	1	
VR4062	VRV0112B103	V.RESISTOR 10K	1	
VR4221	VRV0112B103	V.RESISTOR 10K	1	
VR4281	VRV0112B103	V.RESISTOR 10K	1	
VR4341	VRV0112B103	V.RESISTOR 10K	1	
VR4381	VRV0112B103	V.RESISTOR 10K	1	
VR4382	VRV0064B503	V.RESISTOR 50K	1	
VR4383	VRV0112B502	V.RESISTOR 5K	1	
VR4384	VRV0112B103	V.RESISTOR 10K	1	
VR4385	VRV0112B203	V.RESISTOR 20K	1	
VR4501	VRV0112B104	V.RESISTOR 100K	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E9	VEP85048A	H3 EQ P.C.BOARD	1	(RTL)FOR AJ-D450P
C5001-04	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5005,06	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C5008,09	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5011,12	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5013	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5014,15	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5016,17	ECUX1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C5018,19	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5020	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C5021-29	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	9	
C5101-04	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5105	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5107	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5108,09	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5111-16	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	6	
C5117	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5118-25	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	8	
C5126,27	ECUX1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C5128	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C5129-37	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	9	
C5202-11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	10	
C5213-15	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5217-19	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5220	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5223-30	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	8	
C5231	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C5232,33	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5234	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C5235	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5236	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C5238-40	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5241	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5242-47	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	6	
C5249,50	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5251,52	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	2	
C5253	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5254	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C5256	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C5258-62	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	5	
C5266	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5401-03	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5405-11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	7	
C5413-16	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5418,19	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5420	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5423-32	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	10	
C5433	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	1	
C5434	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5435	ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C5436	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5437	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C5438	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C5439-41	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5442	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C5443-52	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	10	
C5453,54	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	2	
C5455	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5456,57	ECUM1H152KBN	C.CAPACITOR CH 50V 1500P	2	
C5460-64	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	5	
C5466	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5601-04	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5605	ECUM1H040CCN	C.CAPACITOR CH 50V 4P	1	
C5606-09	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5611	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5613,14	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5619-22	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5625	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5627	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5630	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5631	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C5633-36	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5638	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5643	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5701-05	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	5	
C5710,11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5715,16	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5801,02	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5806-09	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C5811-13	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5818	ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5819,20	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5822	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5901,02	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5904	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5909	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5912	ECEV0JV330Q	E.CAPACITOR CH6.3V 33U	1	
C5913	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5951	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5952	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5953	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5954	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C5955-57	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5958	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C5959,60	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5961	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C5962,63	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5964	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C5965,66	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5967	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C5968,69	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5970	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5971,72	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5973	ECEV0JV470Q	E.CAPACITOR CH6.3V 47U	1	
C5974	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5975	ECEA1AGE471	E.CAPACITOR 10V 470U	1	
C5976	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5977,78	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5979	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C5980	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5981-83	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C5984	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5985	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5986	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5987,88	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C5989	ECEV1EV100Q	E.CAPACITOR CH 25V 10U	1	
C5990	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5991	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C5992	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C5995,96	ECEA1CGE470	E.CAPACITOR 16V 47U	2	
D5001	MA3020	DIODE	1	
D5101	MA3020	DIODE	1	
D5201	MA3036-H	DIODE	1	
D5401	MA3036-H	DIODE	1	
D5402	MA3030-H	DIODE	1	
D5403	MA3033-L	DIODE	1	
D5901	MA152K	DIODE	1	
D5951-62	MA701A	DIODE	12	
FL5951-55	VLF1016A470	FILTER	5	
IC5001	AN3730FA	IC	1	
IC5101	M52055FP	IC	1	
IC5102	AN3730FA	IC	1	
IC5201	TC7S32F	IC	1	
IC5202	MC14053BF	IC	1	
IC5203	NJM319M	IC	1	
IC5204	NJM082BM	IC	1	
IC5205	TC7SH32F	IC	1	
IC5206	NJM084M	IC	1	
IC5207	AN3740FAP	IC	1	
IC5208	MC74HC4066F	IC	1	
IC5209	NJM082BM	IC	1	
IC5401	NJM082BM	IC	1	
IC5402	TC7W08F	IC	1	
IC5403	TC7S32F	IC	1	
IC5404	MC14053BF	IC	1	
IC5405	NJM082BM	IC	1	
IC5406	NJM084M	IC	1	
IC5407	NJM319M	IC	1	
IC5408	AN3740FAP	IC	1	
IC5409	MC74HC4066F	IC	1	
IC5410	NJM082BM	IC	1	
IC5411	T74LCX244F	IC	1	
IC5601	UPC1663G-E1	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC5602	NJM084M	IC	1	
IC5603	CXD2302Q	IC	1	
IC5701	MB88344PFV	IC	1	
IC5702	NJM084M	IC	1	
IC5703	NJM082BM	IC	1	
IC5801,02	74F04SJ	IC	2	
IC5803	74F08SJ	IC	1	
IC5805	74F151ASJ	IC	1	
IC5806	74F157ASJ	IC	1	
IC5807	MC10H124M	IC	1	
IC5810	TC7S32F	IC	1	
IC5901	T160G22-1225	IC	1	
IC5902	TC7W08F	IC	1	
IC5903	S80727ANDQ	IC	1	
IC5951-54	XC62AP3002P	IC	4	
IC5955,56	AN78M05F	IC	2	
IC5957,58	AN79M05F	IC	2	
IC5959	NJM78L09UA	IC	1	
L5701	VLQ0163J100	COIL 10UH	1	
L5801	VLQ0163J8R2	COIL 8.2UH	1	
L5802	VLQ0163J2R7	COIL 2.7UH	1	
L5951-53	VLP0133	COIL	3	
P5951	VJP3454B096	CONNECTOR (MALE)	1	
P5952	VJP1231R	CONNECTOR (MALE)	1	
P5953	VJP1231T	CONNECTOR (MALE) 4P	1	
Q5001	XN5531	TRANSISTOR-RESISTOR	1	
Q5002	2SC2295-C	TRANSISTOR	1	
Q5003	XN5531	TRANSISTOR-RESISTOR	1	
Q5004-12	2SC2295-C	TRANSISTOR	9	
Q5101	XN5531	TRANSISTOR-RESISTOR	1	
Q5102	2SC2295-C	TRANSISTOR	1	
Q5103	XN5531	TRANSISTOR-RESISTOR	1	
Q5104-10	2SC2295-C	TRANSISTOR	7	
Q5202,03	2SC2295-C	TRANSISTOR	2	
Q5204	2SA1022-C	TRANSISTOR	1	
Q5401-03	2SC2295-C	TRANSISTOR	3	
Q5404	2SA1022-C	TRANSISTOR	1	
Q5601,02	2SC2295-C	TRANSISTOR	2	
Q5603	XN5531	TRANSISTOR-RESISTOR	1	
Q5606-08	2SC2295-C	TRANSISTOR	3	
QR5101	UN2213	TRANSISTOR-RESISTOR	1	
QR5401,02	UN2213	TRANSISTOR-RESISTOR	2	
R5004	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R5006	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R5007	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5008-11	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R5012	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5013,14	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5015	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5016	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5018	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5019	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5020-22	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R5023	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5025	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R5026,27	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R5028	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5029	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R5030	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5031	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R5032	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5033	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5034	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5035,36	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5037	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5038	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5039	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5040	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5041	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5042	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5043	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5044	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5045	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5046,47	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5048	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5049	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5050	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R5051	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5052	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5053	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5054	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5101,02	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5103	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R5104,05	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5106	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R5107	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5108-11	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	4	
R5112	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5114,15	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5116	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5117	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5118	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5119	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5120	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5121	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5122	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5124	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5125	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5126	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R5127	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5128,29	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5131	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R5132	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R5133	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R5134	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5135,36	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5137	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5138	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5139	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5141	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5142	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5143	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5144	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5145	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5146	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5147,48	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5149	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R5150,51	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R5152	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5206	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5208	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5210	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5211	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5212	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R5214	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5215	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5216	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5217	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5218	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5219	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5220	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5222,23	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5225	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5227	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5229	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5230	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5231,32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5233	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5234	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5235	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5238	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5239	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5240	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5242	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5243	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5244	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5245	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5246	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5247	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5248	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5249	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R5250	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5251	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5252	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R5253	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R5255	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5256	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5257	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5258	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5259	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5262	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R5263	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5264	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R5265	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5266	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5267	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5269	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5270	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5271	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5273	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5277	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5281	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5283,84	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5288	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5290	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5291	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5292,93	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5302,03	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5401,02	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5410,11	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R5413	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5414	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5415	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R5416	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5417	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5418	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5419	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5420	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R5421	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5422	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5425	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5426	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R5429	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5430	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5431	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5432	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5433	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5434	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5435	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5436	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5437	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5438,39	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5440	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5441	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5442	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5445	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5446	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5447	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5449	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5450	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5451	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5452	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5453	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5454	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5455	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5456	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R5457	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5458	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R5459	ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R5461	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5462	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5463	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5464	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5465	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5468	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R5469	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5470	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R5471	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5472	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5474	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5475	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5476	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5478	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5479	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5480	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5483	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5488	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5490,91	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5494	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5496	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5497	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5498	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5499,00	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5501	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R5502	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5504,05	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5508	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5509	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5510	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5601	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5602	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5603	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5604,05	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5606	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5607	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5608,09	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	2	
R5610	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5612,13	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R5614,15	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	2	
R5616	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R5618	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5620	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5621	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5622	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R5623	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5624	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R5627	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R5629	ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R5631	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5632	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5634	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5635	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5639	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5640	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R5646	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5647	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5650	ERJ6GEYG750	M.RESISTOR CH 1/10W 75	1	
R5654	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5656	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R5659	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R5663	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5664	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5667	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5674	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5675,76	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5701-03	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R5704-06	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R5707	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5708	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R5710	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5711	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5712	ERJ6GEYF822	M.RESISTOR CH 1/10W 8.2K	1	
R5713,14	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5717	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R5718	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5724	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R5729	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5730	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R5736	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5737,38	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5801	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5802	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5807,08	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5809	ERDS2T0	C.RESISTOR 1/4W 0	1	
R5811-13	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R5818-25	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	8	
R5830-33	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R5835	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5837-39	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R5840	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R5845	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R5864	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5866,67	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5901-03	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R5905	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5906	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R5907,08	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5909	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5910	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R5911	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R5912	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5914-16	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	3	
R5917,18	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5921	ERDS2TJ470	C.RESISTOR 1/4W 47	1	
SW5801	VSS0367-04B	SWITCH	1	
TG5101	VJR0646	TEST POINT	1	
TG5201	VJR0646	TEST POINT	1	
TG5401	VJR0646	TEST POINT	1	
TG5801	VJR0646	TEST POINT	1	
TP5001,02	VJR0646	TEST POINT	2	
TP5101,02	VJR0646	TEST POINT	2	
TP5201-04	VJR0646	TEST POINT	4	
TP5401-05	VJR0646	TEST POINT	5	
TP5601,02	VJR0646	TEST POINT	2	
TP5801,02	EYF6CU	TEST POINT	2	
TP5901	VJR0646	TEST POINT	1	
VR5210	VRV0109B203	V.RESISTOR 20K	1	
VR5410	VRV0109B203	V.RESISTOR 20K	1	
VR5601	VRV0109B102	V.RESISTOR 1K	1	
VR5801	VRV0113B501	V.RESISTOR 500	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E10	VEP85049A	H4 RF AMP P.C.BOARD	1	(RTL)
C5003-12	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	10	
C5013	ECEV0JV101Q	E.CAPACITOR CH6.3V 100U	1	
C5014	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5020,21	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C5022,23	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C5024,25	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	2	
C5026,27	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C5052-54	ECUM1H221JCN	C.CAPACITOR CH 50V 220P	3	
C5057-64	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C5066,67	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5069-94	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	26	
C5099,00	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5105-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5110,11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5116-33	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	18	
C5136	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5140,41	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5202,03	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5206,07	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5209,10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5600-07	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C5608	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5609-11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C5612	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5613	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5614	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
C5615	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C5617	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
C5618,19	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5620,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5622	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C5624	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C5626	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C5628	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C5630,31	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5632	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5633-36	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C5637,38	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C5639,40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5643-45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C5646,47	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5648-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C5659	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5660	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
C5661-63	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C5665	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5670	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5671	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C5700-07	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
C5708	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5709-11	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C5713	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C5714	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
C5715	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C5717	ECUM1H473KBN	C.CAPACITOR CH 50V 0.047U	1	
C5718,19	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5720,21	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5722	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C5724	ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C5726	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C5728	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C5730,31	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5732	ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C5733-36	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C5737,38	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C5739,40	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C5743-45	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
C5746,47	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C5748-58	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	11	
C5759	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C5760	ECUM1H182KBN	C.CAPACITOR CH 50V 1800P	1	
D5001	MA153	DIODE	1	
D5002	MA152WK	DIODE	1	
FL5002-05	VLF0931	FILTER	4	
IC5002	MC74HC32AF	IC	1	
IC5003	MC74HC04AF	IC	1	
IC5004	NJM082BM	IC	1	
IC5005	MC74HC86AF	IC	1	
IC5006,07	TC4S66F	IC	2	
IC5008	NJM082BM	IC	1	
IC5009	MC14053BF	IC	1	
IC5010	AN7805F	IC	1	
IC5011	AN7905F	IC	1	
IC5013	MB88344PFV	IC	1	
IC5014-16	NJM082BM	IC	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC5017	MC14053BF	IC	1	
IC5020	MC10H116L	IC	1	
IC5021	MC10H102L	IC	1	
IC5022	MC10131L	IC	1	
IC5051	UPC1663G-E1	IC	1	
IC5052	NJM1496M	IC	1	
IC5053	NJM082BM	IC	1	
IC5054	UPC1663G-E1	IC	1	
IC5055	NJM1496M	IC	1	
L5600	VLQ0188K1R0K	COIL 1.0UH	1	
L5601,02	VLQ0188KR47K	COIL 0.47UH	2	
L5603,04	VLQ0188J101	COIL 100UH	2	
L5605,06	VLQ0163KR39	COIL 0.39UH	2	
L5700-02	VLQ0188K1R0K	COIL 1.0UH	3	
L5703,04	VLQ0188J101	COIL 100UH	2	
L5705,06	VLQ0188KR39N	COIL 0.39UH	2	
P5001	VJP3454B096	CONNECTOR (MALE)	1	
P5002	VJP1230T	CONNECTOR (MALE) 3P	1	
P5003	VJP1230G	CONNECTOR (MALE) 3P	1	
P5004	VJP1230T	CONNECTOR (MALE) 3P	1	
P5005	VJP1230G	CONNECTOR (MALE) 3P	1	
Q5001	2SD601A-R	TRANSISTOR	1	
Q5002	2SB709A-R	TRANSISTOR	1	
Q5006,07	2SA1022-C	TRANSISTOR	2	
Q5008	2SD601A-R	TRANSISTOR	1	
Q5600	XN6537	TRANSISTOR-RESISTOR	1	
Q5601,02	2SC2295-C	TRANSISTOR	2	
Q5603	XN5531	TRANSISTOR-RESISTOR	1	
Q5604	2SC3130	TRANSISTOR	1	
Q5605	XN5531	TRANSISTOR-RESISTOR	1	
Q5606,07	2SK508K512	TRANSISTOR	2	
Q5608	2SC3130	TRANSISTOR	1	
Q5609,10	2SD1979	TRANSISTOR	2	
Q5611-13	2SC3130	TRANSISTOR	3	
Q5614,15	2SK508K512	TRANSISTOR	2	
Q5616-19	XN5531	TRANSISTOR-RESISTOR	4	
Q5620,21	2SC3130	TRANSISTOR	2	
Q5700	XN6537	TRANSISTOR-RESISTOR	1	
Q5701,02	2SC2295-C	TRANSISTOR	2	
Q5703	XN5531	TRANSISTOR-RESISTOR	1	
Q5704	2SC3130	TRANSISTOR	1	
Q5705	XN5531	TRANSISTOR-RESISTOR	1	
Q5706,07	2SK508K512	TRANSISTOR	2	
Q5708	2SC3130	TRANSISTOR	1	
Q5709,10	2SD1979	TRANSISTOR	2	
Q5711-13	2SC3130	TRANSISTOR	3	
Q5714,15	2SK508K512	TRANSISTOR	2	
Q5716-19	XN5531	TRANSISTOR-RESISTOR	4	
Q5720	2SC3130	TRANSISTOR	1	
R5001	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5003	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5010,11	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5012,13	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5015	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5018,19	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5020	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R5021	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R5022-26	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	5	
R5040	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5041,42	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5043	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5044	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5046-48	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	3	
R5049,50	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5051	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5052-54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R5055	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5056	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5057	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5058	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5059,60	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5061	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5062	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5063-65	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R5069-80	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	12	
R5081	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5082	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R5083, 84	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R5085	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5086	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5087	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R5088, 89	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	2	
R5090	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5091	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5092, 93	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R5094	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R5095	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R5096	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5097, 98	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R5099	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R5100	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R5111	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5112	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5113	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R5114, 15	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R5116	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5117	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R5118	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R5119, 20	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R5122	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5130-33	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	4	
R5140-45	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	6	
R5146	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5148	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R5149	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R5150	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R5151	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R5153	ERJ6RBD562	M.RESISTOR CH 1/10W 5.6K	1	
R5154	ERJ6RBD333	M.RESISTOR CH 1/10W 33K	1	
R5155	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R5156	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5161	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5171, 72	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R5200, 01	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R5202-05	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	4	
R5206, 07	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R5208-10	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	3	
R5211, 12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R5214, 15	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R5216, 17	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R5218, 19	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	2	
R5230	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R5231, 32	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5600, 01	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R5602	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R5603, 04	ERJ6RBD271	M.RESISTOR CH 1/10W 270	2	
R5605	ERJ6RED680	M.RESISTOR CH 1/10W 68	1	
R5606	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R5607, 08	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R5609	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R5610, 11	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5612	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5613	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R5614	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5615	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5616, 17	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5618, 19	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R5620, 21	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5622, 23	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5624, 25	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R5626	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	
R5627	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R5628	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R5629	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	
R5630	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R5631	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5632	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5633	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5634	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5635	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R5637, 38	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5639, 40	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R5642, 43	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5644	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5645	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5646, 47	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5648	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5649	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5650, 51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5652	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5653	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5654, 55	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5656, 57	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R5658, 59	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5660	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5661	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R5662	ERJ6RBD221	M.RESISTOR CH 1/10W 220	1	
R5663	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R5664-66	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	3	
R5667, 68	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5669, 70	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5671, 72	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R5673, 74	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5675, 76	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5677, 78	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R5679, 80	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	2	
R5681, 82	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R5683, 84	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5685, 86	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5687, 88	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R5689	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5690	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5691	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5692	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5693-96	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R5697	ERJ6RBD821	M.RESISTOR CH 1/10W 820	1	
R5698	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R5699-02	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	4	
R5703	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R5704	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R5705	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R5706, 07	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	2	
R5708	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R5709	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5710	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5711-15	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
R5717	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5718	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5719	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5720	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5800, 01	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R5802	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R5803, 04	ERJ6RBD271	M.RESISTOR CH 1/10W 270	2	
R5805	ERJ6RBD121	M.RESISTOR CH 1/10W 120	1	
R5806	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R5807, 08	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R5809	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R5810, 11	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5812	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5813	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R5814	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5815	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5816, 17	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5818, 19	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R5820, 21	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5822, 23	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5824, 25	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	2	
R5826	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	
R5827	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R5828	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R5829	ERJ6RBD181	M.RESISTOR CH 1/10W 180	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5830	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R5831	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5832	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5833	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5834	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5835	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R5836	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R5837	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5838	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R5839,40	ERJ6RBD151	M.RESISTOR CH 1/10W 150	2	
R5842,43	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5844	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5845	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5846,47	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5848	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5849	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5850,51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5852	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5853	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5854,55	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5856,57	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R5858,59	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5860	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5861	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R5862	ERJ6RBD221	M.RESISTOR CH 1/10W 220	1	
R5863	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R5864-66	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	3	
R5867,68	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5869,70	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5871,72	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R5873,74	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5875,76	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5877,78	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R5879,80	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	2	
R5881,82	ERJ6RED470	M.RESISTOR CH 1/10W 47	2	
R5883,84	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5885,86	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5887,88	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R5889	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R5890	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	1	
R5891	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5892	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5893-96	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	4	
R5897	ERJ6RBD821	M.RESISTOR CH 1/10W 820	1	
R5898	ERJ6RBD102	M.RESISTOR CH 1/10W 1K	1	
R5899-02	ERJ6GEYG560	M.RESISTOR CH 1/10W 56	4	
R5903	ERJ6RBD822	M.RESISTOR CH 1/10W 8.2K	1	
R5904	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R5905	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	1	
R5906,07	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	2	
R5908	ERJ6RBD153	M.RESISTOR CH 1/10W 15K	1	
R5909	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5910	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5911-14	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R5920	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
RY5001	VSY2069	RELAY	1	
SS5008	VJS1990	CONNECTOR (FEMALE)	1	
SW5008	VJP2536A003	CONNECTOR (MALE)	1	
TG5001-03	VJR0646	TEST POINT	3	
TG5005-09	VJR0646	TEST POINT	5	
TP5001-03	VJR0646	TEST POINT	3	
TP5007-12	VJR0646	TEST POINT	6	
TP5015-20	VJR0646	TEST POINT	6	
VC5600,01	ECV1ZW20X53T	TRIMMER	2	
VC5700,01	ECV1ZW20X53T	TRIMMER	2	
VR5013,14	VRV0112B502	V.RESISTOR 5K	2	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VSC3626	HEAT SINK (A)	2	
	XNG26EFXS	NUT	2	
	XYN26+F10	SCREW	2	
■ E11	VEP85151A	HEAD BUFF P.C.BOARD	1	(RTL)
C5001	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5002	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5003	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5004	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5005	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5006	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5007	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5008	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5009	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C5010	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C5011-14	ECEV1EN4R7Q	E.CAPACITOR CH 25V 4.7U	4	
C5015,16	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C5017-20	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	4	
C5021,22	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	2	
C5050-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C5061,62	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C5063-66	ECUX1H822KBV	C.CAPACITOR CH 50V 8200P	4	
C5100-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5200-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5300-02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5303	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5304	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5305	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5306	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5307,08	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	2	
C5350-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5353	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5354	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5355	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5356	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5357,58	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	2	
C5400	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5401-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5406,07	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C5413-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5420	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5421	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5500	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5501-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5506,07	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C5514-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5520	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5521	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5600-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C5700-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C5801,02	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
D5400,01	MA152WK	DIODE	2	
D5500,01	MA152WK	DIODE	2	
FL5001-05	VLF1016A470	FILTER	5	
IC5003	MC74HC04AF	IC	1	
IC5008,09	TC4S66F	IC	2	
IC5010	XC62AP5002P	IC	1	
IC5011	XC62DN5002P	IC	1	
IC5014	NJM082BM	IC	1	
IC5023,24	MC10H116L	IC	2	
IC5025,26	TC4S69F	IC	2	
IC5027,28	TC4S30F	IC	2	
IC5030-33	TC4S30F	IC	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC5034	XC62DN5002P	IC	1	
IC5035	TC4S71F	IC	1	
IC5040-43	TC4S30F	IC	4	
IC5045	TC4S71F	IC	1	
IC5050	UPC5102GS030	IC	1	
IC5060	UPC5102GS030	IC	1	
L5300, 01	VLQ0163J2R2	COIL 2.2UH	2	
L5350, 51	VLQ0163J2R2	COIL 2.2UH	2	
L5400, 01	VLQ0163J330	COIL 33UH	2	
L5500, 01	VLQ0163J330	COIL 33UH	2	
P5001	VJS3375B060	CONNECTOR (FEMALE)	1	
P5002	VJS3900C013	CONNECTOR (FEMALE)	1	
P5003	VJS3900C010	CONNECTOR (FEMALE)	1	
Q5200, 01	2SA1022-C	TRANSISTOR	2	
Q5300	2SD601A-R	TRANSISTOR	1	
Q5301	2SB709A-R	TRANSISTOR	1	
Q5302, 03	2SC3735B35	TRANSISTOR	2	
Q5350	2SD601A-R	TRANSISTOR	1	
Q5351	2SB709A-R	TRANSISTOR	1	
Q5352, 53	2SC3735B35	TRANSISTOR	2	
Q5400	2SA1022-C	TRANSISTOR	1	
Q5401-04	2SD1979	TRANSISTOR	4	
Q5405, 06	2SC2954	TRANSISTOR	2	
Q5407, 08	2SC3130	TRANSISTOR	2	
Q5409	2SC2954	TRANSISTOR	1	
Q5410, 11	2SA1022-C	TRANSISTOR	2	
Q5412, 13	2SK508-B	TRANSISTOR	2	
Q5500	2SA1022-C	TRANSISTOR	1	
Q5501-04	2SD1979	TRANSISTOR	4	
Q5505, 06	2SC2954	TRANSISTOR	2	
Q5507, 08	2SC3130	TRANSISTOR	2	
Q5509	2SC2954	TRANSISTOR	1	
Q5510, 11	2SA1022-C	TRANSISTOR	2	
Q5512, 13	2SK508-B	TRANSISTOR	2	
Q5600, 01	XN5531	TRANSISTOR-RESISTOR	2	
Q5700, 01	XN5531	TRANSISTOR-RESISTOR	2	
R5100	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5101, 02	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	2	
R5103	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R5104, 05	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	2	
R5106-09	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	4	
R5200, 01	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5202	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5203, 04	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5205	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5206	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5207, 08	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5209	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5210, 11	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R5212	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R5213	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5214	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5215, 16	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R5217	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5218	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R5219, 20	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R5221	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R5300	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R5302	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5303	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5304	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5305	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5306	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R5307	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5308	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R5309, 10	ERJ8GCYG101	M.RESISTOR CH 1/8W 100	2	
R5311	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5312	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R5313	ERJ8GCYJ270	M.RESISTOR CH 1/8W 27	1	
R5314	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R5350	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5352	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5353	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5354	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5355	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R5356	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R5357	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5358	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R5359, 60	ERJ8GCYG101	M.RESISTOR CH 1/8W 100	2	
R5361	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5362	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	1	
R5363	ERJ8GCYJ270	M.RESISTOR CH 1/8W 27	1	
R5364	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R5400, 01	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	2	
R5402-04	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R5405-08	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R5409-13	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	5	
R5414	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5415	ERJ8GCYJ221	M.RESISTOR CH 1/8W 220	1	
R5416	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5417	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5419	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5420, 21	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	2	
R5424, 25	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5426	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5427	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R5428	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5429	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R5430	ERJ12YJ270	M.RESISTOR CH 1/2W 270	1	
R5431	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R5432, 33	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	2	
R5434	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5435	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5440	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5500, 01	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	2	
R5502-04	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	3	
R5505-08	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R5509-13	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	5	
R5514	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5515	ERJ8GCYJ221	M.RESISTOR CH 1/8W 220	1	
R5516	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5517	ERJ6GEYG152	M.RESISTOR CH 1/10W 1.5K	1	
R5519	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R5520, 21	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	2	
R5524, 25	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5526	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5527	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R5528	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R5529	ERJ6GEYG151	M.RESISTOR CH 1/10W 150	1	
R5530	ERJ12YJ270	M.RESISTOR CH 1/2W 270	1	
R5531	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R5532, 33	ERJ6GEYG182	M.RESISTOR CH 1/10W 1.8K	2	
R5534	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R5535	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5540	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R5600	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R5601, 02	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5603, 04	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	2	
R5605, 06	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R5607, 08	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5609, 10	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5611, 12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R5613, 14	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5615-18	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R5700	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R5701, 02	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5703, 04	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R5705	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R5706	ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	1	
R5707, 08	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R5709, 10	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R5711, 12	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	2	
R5713, 14	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R5715-18	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
TG5001, 02	VJR0646	TEST POINT	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TP5001-04	VJR0646	TEST POINT	4	
		MISCELLANEOUS		
	VMP5846	RF ANGLE	1	
	VYQ1745	RF SHIELD CASE (UPPER)	1	
	VSC4386	RF SHIELD CASE (MIDDLE)	1	
	XTV3+6FFR	SCREW	2	
	VSC4437	RF SHIELD CASE (LOWER)	1	
	VMZ2588	RF BARRIER	1	
	VEE9862	CABLE	1	
■ E12	VEP80991A	AC HEAD I/F P.C.BOARD	1	(RTL)
P1	VJP2278	CONNECTOR (MALE)	1	
P2	VJP1881T	CONNECTOR (MALE)	1	
■ E13	VEP83224B	V/S JACK P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
C1,C2	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C5,C6	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C8	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C9,10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C11	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C12,13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C14	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C15,16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C17	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C18,19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C20	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C21,22	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C24,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C26	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C28,29	ECA1CXS470	E.CAPACITOR 16V 47U	2	
C30	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C31,32	ECA1CXS470	E.CAPACITOR 16V 47U	2	
C33-38	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	6	
C50,51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C250-52	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	3	
D1-D5	MA152K	DIODE	5	
D6-11	MA3130-L	DIODE	6	
IC1	NJM78L09UA	IC	1	
IC2	NJM79L09UA	IC	1	
IC3	NJM78L09UA	IC	1	
IC4	NJM79L09UA	IC	1	
IC5	NJM78L09UA	IC	1	
IC6	NJM79L09UA	IC	1	
IC209	NJM78L09UA	IC	1	
IC210	NJM79L09UA	IC	1	
J1,J2	VJS3902	CONNECTOR (FEMALE)	2	
J3	VJS3901	CONNECTOR (FEMALE)	1	
J4,J5	VJS3902	CONNECTOR (FEMALE)	2	
J14	VJP3414A009	CONNECTOR (MALE)	1	
J16	VJP3414A015	CONNECTOR (MALE)	1	
J17	VJP3414A025	CONNECTOR (MALE)	1	
L1	VLQEL05F101J	COIL 100UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P1	VJP3375A060	CONNECTOR (MALE)	1	
Q1	2SA1022-C	TRANSISTOR	1	
Q2	2SC2295-C	TRANSISTOR	1	
Q3	2SA1022-C	TRANSISTOR	1	
Q4	2SC2295-C	TRANSISTOR	1	
Q5	2SA1022-C	TRANSISTOR	1	
Q6	2SC2295-C	TRANSISTOR	1	
Q7	2SA1022-C	TRANSISTOR	1	
Q8	2SC2295-C	TRANSISTOR	1	
Q9	2SA1022-C	TRANSISTOR	1	
Q10	2SC2295-C	TRANSISTOR	1	
Q11	2SB709A-R	TRANSISTOR	1	
Q12,13	2SD601A-R	TRANSISTOR	2	
Q14	2SB709A-R	TRANSISTOR	1	
Q15,16	2SD601A-R	TRANSISTOR	2	
Q17	2SB709A-R	TRANSISTOR	1	
Q18,19	2SD601A-R	TRANSISTOR	2	
Q20	2SB709A-R	TRANSISTOR	1	
Q21,22	2SD601A-R	TRANSISTOR	2	
Q23	2SB709A-R	TRANSISTOR	1	
Q24,25	2SD601A-R	TRANSISTOR	2	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD601A-R	TRANSISTOR	2	
R1	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R2	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R3	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R4	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R5,R6	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R7	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R8	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R9	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R10	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R11	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R12	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R13,14	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R15	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R16	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R17	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R18	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R19	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R20	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R21,22	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R23	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R24	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R25	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R26	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R27	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R28	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R29,30	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R31	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R32	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R33	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R34	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R35	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R36	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R37,38	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R39	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R40	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R41,42	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R43	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R44	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R45,46	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R47	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R48-50	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R52	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R53,54	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R55	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R56-58	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R59	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R60	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R61,62	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R63	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R64-66	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R67	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R68	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R69,70	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R71	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R72-74	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R76	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R77,78	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R79	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R80-82	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R84	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R85,86	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R87	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R88	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
SW1,W2	VSS0307	SWITCH	2	
		MISCELLANEOUS		
	VMP5684	P.C.BOARD ANGLE	1	
	VMP4866	D SUB ANGLE	1	
	VX00102	SCREW	6	
	XTN26+6FFZ	SCREW	4	
	XTN3+10JFZ	SCREW	5	
	XYE3+EF8	SCREW	2	
■ E13	VEP83417C	V/S JACK P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
C1,C2	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C4	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C5,C6	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C8	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C9,10	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C11	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C12,13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C14	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C15,16	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C17	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C18,19	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C20	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C21,22	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C24,25	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C26	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C27	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C28,29	ECA1CXS470	E.CAPACITOR 16V 47U	2	
C30	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C31,32	ECA1CXS470	E.CAPACITOR 16V 47U	2	
C33-38	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	6	
C50,51	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C203	ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C204-27	ECUX1H102JCN	C.CAPACITOR CH 50V 1000P	24	
C240-42	ECA1CXS100	E.CAPACITOR 16V 10U	3	
C243	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C244	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C250-57	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	8	
D5	MA152K	DIODE	1	
D6-11	MA3130-L	DIODE	6	
D201,02	MA152K	DIODE	2	
IC1	NJM78L09UA	IC	1	
IC2	NJM79L09UA	IC	1	
IC3	NJM78L09UA	IC	1	
IC4	NJM79L09UA	IC	1	
IC5	NJM78L09UA	IC	1	
IC6	NJM79L09UA	IC	1	
IC201,02	MC14021BF	IC	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC203	SN74S1051NS	IC	1	
IC205,06	MC14094BF	IC	2	
IC207	MC14050BF	IC	1	
IC208	MC14049UBF	IC	1	
IC209	NJM78L09UA	IC	1	
IC210	NJM79L09UA	IC	1	
J2,J3	VJS3901	CONNECTOR (FEMALE)	2	
J4,J5	VJS3902	CONNECTOR (FEMALE)	2	
J14	VJP3414A009	CONNECTOR (MALE)	1	
J16	VJP3414A015	CONNECTOR (MALE)	1	
J17	VJP3414A025	CONNECTOR (MALE)	1	
L1	VLQEL05F101J	COIL 100UH	1	
P1	VJP3375A060	CONNECTOR (MALE)	1	
Q9	2SA1022-C	TRANSISTOR	1	
Q10	2SC2295-C	TRANSISTOR	1	
Q11	2SB709A-R	TRANSISTOR	1	
Q12,13	2SD601A-R	TRANSISTOR	2	
Q14	2SB709A-R	TRANSISTOR	1	
Q15,16	2SD601A-R	TRANSISTOR	2	
Q17	2SB709A-R	TRANSISTOR	1	
Q18,19	2SD601A-R	TRANSISTOR	2	
Q20	2SB709A-R	TRANSISTOR	1	
Q21,22	2SD601A-R	TRANSISTOR	2	
Q23	2SB709A-R	TRANSISTOR	1	
Q24,25	2SD601A-R	TRANSISTOR	2	
Q26	2SB709A-R	TRANSISTOR	1	
Q27,28	2SD601A-R	TRANSISTOR	2	
Q201-12	UN2214	TRANSISTOR-RESISTOR	12	
R33	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R34	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R35	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R36	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R37,38	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R39	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R40	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R41,42	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R43	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R44	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R45,46	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R47	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R48-50	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R51	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R52	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R53,54	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R55	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R56-58	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R59	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R60	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R61,62	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R63	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R64-66	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R67	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R68	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R69,70	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R71	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R72-74	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R75	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R76	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R77,78	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R79	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R80-82	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	3	
R83	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R84	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R85,86	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R87	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R88	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R201,02	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	2	
R203	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R204	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R205	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R206	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R207	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R208	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R209-32	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	24	
R241	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R242	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R243	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
⚠ R244	ERQ12HJ2R7	F.RESISTOR 1/2W 2.7	1	
R251-55	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
SW2	VSS0307	SWITCH	1	
		MISCELLANEOUS		
	VMP5684	P.C.BOARD ANGLE	1	
	VMP4866	D SUB ANGLE	1	
	VXQ0102	SCREW	6	
	XTN26+6FFZ	SCREW	4	
	XTN3+10JFZ	SCREW	4	
	XYE3+EF8	SCREW	2	
■ E14	VEP81074A	POWER 1 P.C.BOARD	1	(RTL)FOR AJ-D450P/D440E
⚠ C1,C2	ECQU2A224MN	P.CAPACITOR 100V 0.22U	2	
⚠ C3,C4	VCK0260M332A	C.CAPACITOR 3300P	2	
⚠ C5	VCK0260M102A	C.CAPACITOR 1000P	1	
C7,C8	ECEC2EB681E	E.CAPACITOR 250V 680U	2	
C9,10	ECA1HXLV220	E.CAPACITOR 50V 22U	2	
C11	ECA1HXLV010	E.CAPACITOR 50V 1U	1	
C12	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C13	ECA1HXLV010	E.CAPACITOR 50V 1U	1	
C14	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C15	ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C16	ECQP1H471GZ	P.CAPACITOR 50V 470P	1	
C17,18	ECQB1H104JF	P.CAPACITOR 50V 0.1U	2	
C19	ECQB1H562JF	P.CAPACITOR 50V 5600P	1	
C20	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C21	ECQP1H471GZ	P.CAPACITOR 50V 470P	1	
C22	ECQB1H562JF	P.CAPACITOR 50V 5600P	1	
C23	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C26	ECEA1HGE010	E.CAPACITOR 50V 1U	1	
C27	ECKF1H332KB	C.CAPACITOR 50V 3300P	1	
C28	ECA1CXS100	E.CAPACITOR 16V 10U	1	
C29	ECEA2GGE100	E.CAPACITOR 400V 10U	1	
C30	ECQV1H105JL	P.CAPACITOR 50V 1U	1	
C31	ECQE2A223KF	P.CAPACITOR 100V 0.022U	1	
⚠ C32	ECQU2A683MN	P.CAPACITOR 100V 0.068U	1	
C33	ECQV1H823JL	P.CAPACITOR 50V 0.082U	1	
D1	RBV606	DIODE	1	
D2	AC08FGM	DIODE	1	
D3	AP01C	DIODE	1	
D4	ERA22-06	DIODE	1	
D10	ERA22-02	DIODE	1	
D12	MA4240-H	DIODE	1	
D13,14	ERA22-02	DIODE	2	
D15	MA4240-H	DIODE	1	
D17	ERA22-02	DIODE	1	
D18,19	MA4051	DIODE	2	
D20-22	MA165	DIODE	3	
D23,24	MA4051	DIODE	2	
D25	MA4082H	DIODE	1	
D26	MA4051	DIODE	1	
IC1,C2	FA5311P	IC	2	
IC3	MK1210	IC	1	
J3	VWJ0119	JUMPER	1	
⚠ L1	ELF18D850P	FILTER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ L3	ELF18D608	FILTER	1	
P1	VJP2638	CONNECTOR (MALE)	1	
P3	VJP2639	CONNECTOR (MALE)	1	
P4	VJP2824A007	CONNECTOR (MALE)	1	
P5	VJP3080	CONNECTOR (MALE)	1	
Q2,Q3	2SD893	TRANSISTOR	2	
Q4	UN1111	TRANSISTOR-RESISTOR	1	
Q5	2SD1991A-Q	TRANSISTOR	1	
⚠ R1	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R2	ERDS2FJ682	C.RESISTOR 1/4W 6.8K	1	
R3	ERDS2FJ102	C.RESISTOR 1/4W 1K	1	
R4	ERG2SJ471	M.RESISTOR 2W 470	1	
⚠ R5	ERU5TEJ100	F.RESISTOR 5W 10	1	
R6	ERG3SJ101	M.RESISTOR 3W 100	1	
R7,R8	ERDS2FJ684	C.RESISTOR 1/4W 680K	2	
R9	ERDS1TJ220	C.RESISTOR 1/2W 22	1	
R10	ERDS2FJ104	C.RESISTOR 1/4W 100K	1	
R11	ER0S2CKF4700	M.RESISTOR 1/4W 470	1	
R12,13	ERDS2FJ104	C.RESISTOR 1/4W 100K	2	
R14,15	ERDS1TJ394	C.RESISTOR 1/2W 390K	2	
R16	ERDS1TJ220	C.RESISTOR 1/2W 22	1	
R17	ER0S2CKF4700	M.RESISTOR 1/4W 470	1	
R18,19	ERDS2FJ105	C.RESISTOR 1/4W 1M	2	
R20	ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R22	ERDS1TJ334	C.RESISTOR 1/2W 330K	1	
R23,24	ERDS1TJ104	C.RESISTOR 1/2W 100K	2	
R25	ERDS2FJ333	C.RESISTOR 1/4W 33K	1	
R26	ERDS2FJ473	C.RESISTOR 1/4W 47K	1	
R27	ERDS2FJ563	C.RESISTOR 1/4W 56K	1	
R28	ER0S2CKF4701	M.RESISTOR 1/4W 4.7K	1	
R29	ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R30	ER0S2CKF2700	M.RESISTOR 1/4W 270	1	
R31	ERDS1TJ470	C.RESISTOR 1/2W 47	1	
R32	ERDS1TJ334	C.RESISTOR 1/2W 330K	1	
R33,34	ERDS1TJ104	C.RESISTOR 1/2W 100K	2	
R36	ERDS2FJ104	C.RESISTOR 1/4W 100K	1	
R37	ER0S2CKF4701	M.RESISTOR 1/4W 4.7K	1	
R38	ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R39	ER0S2CKF2700	M.RESISTOR 1/4W 270	1	
R40,41	ERDS1TJ394	C.RESISTOR 1/2W 390K	2	
R42	ERDS2FJ684	C.RESISTOR 1/4W 680K	1	
R44	ERDS2FJ683	C.RESISTOR 1/4W 68K	1	
R46,47	ERDS2FJ183	C.RESISTOR 1/4W 18K	2	
		MISCELLANEOUS		
	VSC3434	SHIELD CASE	1	
	XYN3+F6FZS	SCREW	1	
⚠	VMZ0965	CAPACITOR COVER	1	
⚠	VMZ1608	CAPACITOR COVER	2	
⚠	VMZ1798	BARRIER	2	
	VJF0384	CLAMP	1	
⚠	VMZ1356	CAPACITOR COVER	1	
■ E14	VEP81183A	POWER 1 P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
⚠ C1101	ECQU2A224MV	P.CAPACITOR 100V 0.22U	1	
⚠ C1102,03	VCK0262K471A	C.CAPACITOR 470P	2	
⚠ C1104	ECQU2A474MV	P.CAPACITOR 100V 0.47U	1	
⚠ C1105,06	VCK0262K101A	C.CAPACITOR 100P	2	
⚠ C1107,08	VCK0260M152A	C.CAPACITOR 1500P	2	
⚠ C1109	VCK0260M102A	C.CAPACITOR 1000P	1	
C1110,11	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1112	VCK0293	C.CAPACITOR	1	
C1115,16	VCK0106K471	C.CAPACITOR 470P	2	
C1117,18	ECEC2WC151EB	E.CAPACITOR 450V 150U	2	
C1119,20	VCK0106K471	C.CAPACITOR 470P	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1121	ECA1HXLV100	E.CAPACITOR 50V 10U	1	
C1122	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1124,25	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	2	
C1126	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1127	ECQV1H684JF	P.CAPACITOR 50V 0.68U	1	
C1128	ECA1HFQ101	E.CAPACITOR 50V 100U	1	
C1129	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C1130	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1131	ECQF6222JZ	P.CAPACITOR 630V 2200P	1	
C1132,33	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1134	ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
D1101	RBV606	DIODE	1	
D1102	TM1661S-L	DIODE	1	
D1103	U1GU44	DIODE	1	
D1104	FML-36S	DIODE	1	
D1105,06	ERA15-08	DIODE	2	
D1107,08	MA3200-M	DIODE	2	
D1110	MA151K	DIODE	1	
D1111-13	U1GU44	DIODE	3	
D1114,15	MA3068-M	DIODE	2	
D1116	MA3200-M	DIODE	1	
D1117	MA151K	DIODE	1	
IC1101	MC33262P	IC	1	
IC1102	M51945BL	IC	1	
IC1103	M51953BL	IC	1	
⚠ L1101	ELF18D850C	FILTER	1	
⚠ L1102,03	ELF18D604F	FILTER	2	
L1105	VLQ0820	COIL	1	
P1101	VJP2638	CONNECTOR (MALE)	1	
P1102,03	VJP2639	CONNECTOR (MALE)	2	
P1104	VJP4033	CONNECTOR (MALE)	1	
Q1101,02	2SK1941-R	TRANSISTOR	2	
Q1105	UN2213	TRANSISTOR-RESISTOR	1	
⚠ R1101	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
⚠ R1102,03	ERU5TEJ100	F.RESISTOR 5W 10	2	
R1104	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1105,06	ERG2SJ220	M.RESISTOR 2W 22	2	
R1107	VRE0206	M.RESISTOR	1	
R1108	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1109	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1110	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1111	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1112	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1113	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	1	
R1114	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1115,16	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R1117,18	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1119	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1120	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R1122	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	1	
R1123	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	1	
R1125	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1127	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1129	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	1	
R1130	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1131	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1132	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R1133	ERJ6GEYG390	M.RESISTOR CH 1/10W 39	1	
R1134,35	ERJ14YJ224	M.RESISTOR CH 1/4W 220K	2	
R1136	ERJ14YJ154	M.RESISTOR CH 1/4W 150K	1	
R1137	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R1138	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R1139-41	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1142	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1143,44	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1145	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1146	VRT0142	THERMISTOR	1	
R1147	ERG2SJ271	M.RESISTOR 2W 270	1	
R1148-50	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1151	ERJ6RBD223	M.RESISTOR CH 1/10W 22K	1	
R1153,54	ERJ12YJ473	M.RESISTOR CH 1/2W 47K	2	
R1155,56	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1158	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1159	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1160	ERJ6RED224	M.RESISTOR CH 1/10W 220K	1	
R1161	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R1162	ERJ6RED334	M.RESISTOR CH 1/10W 330K	1	
R1163	ERJ6GEYG474	M.RESISTOR CH 1/10W 470K	1	
R1165	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R1166	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
VR1102	VRV0109B501	V.RESISTOR 500	1	
		MISCELLANEOUS		
⚠	VMZ0965	CAPACITOR COVER	3	
⚠	VMZ1608	CAPACITOR COVER	4	
	VSC4708	HEAT SINK (A)	1	
	XYE3+EF8	SCREW	2	
	XYN3+F6FZS	SCREW	1	
	XYN3+F8	SCREW	5	
	XYN3+F10	SCREW	1	
	VJR1008	EARTH LUG	3	
	VJF1348	CLAMPER	1	
■ E15	VEP81075A	POWER 2 P.C.BOARD	1	(RTL)FOR AJ-D450P/D440
C40,41	EEUFA1A682E	E.CAPACITOR 10V 6800P	2	
C42	ECA1VFQ102	E.CAPACITOR 35V 1000U	1	
C43	EEUFA1E472E	E.CAPACITOR 25V 4700P	1	
C44	EEUFA1C272E	E.CAPACITOR 16V 2700P	1	
C45	EEUFA1C102E	E.CAPACITOR 16V 1000P	1	
C46	EEUFA1E681E	E.CAPACITOR 25V 680P	1	
C47,48	ECA1CXL101	E.CAPACITOR 16V 100U	2	
C49	ECEA1VGE471	E.CAPACITOR 35V 470U	1	
C50	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C51-53	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C54-56	ECQB1H104JF	P.CAPACITOR 50V 0.1U	3	
C59	ECQB1H104JF	P.CAPACITOR 50V 0.1U	1	
C60	ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C61	VCK0106K151	C.CAPACITOR 150P	1	
C62	VCK0106K221	C.CAPACITOR 220P	1	
C63	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C64	VCK0106K151	C.CAPACITOR 150P	1	
C65	VCK0106K221	C.CAPACITOR 220P	1	
C66	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C67,68	ECQE6473KF	P.CAPACITOR 630V 0.047U	2	
C69	ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C70-75	ECKF1H101KB	C.CAPACITOR 50V 100P	6	
C76-78	EEUFA1A822E	E.CAPACITOR 10V 8200P	3	
C79	ECKF1H121KB	C.CAPACITOR 50V 120P	1	
C80,81	ECQB1H222JF	P.CAPACITOR 50V 2200P	2	
C82	ECQV1H823JL	P.CAPACITOR 50V 0.082U	1	
D30	D30SC4M	DIODE	1	
D31	FML12SP	DIODE	1	
D32	RL4ZP	DIODE	1	
D33	FML-G12SP	DIODE	1	
D34	FMB-G14L	DIODE	1	
D35	31DQ04	DIODE	1	
D36	RL2ZP	DIODE	1	
D37,38	MA4075	DIODE	2	
D39	MA4300-L	DIODE	1	
D40	MA4160-L	DIODE	1	
D41,42	MA4130H	DIODE	2	
D43	MA4160-L	DIODE	1	
D44,45	ERA22-06	DIODE	2	
D46	AP01C	DIODE	1	
D47	ERA22-02	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D48	MA4240-H	DIODE	1	
D49	AP01C	DIODE	1	
D50	ERA22-02	DIODE	1	
D51	MA4240-H	DIODE	1	
IC11,12	UPC1093J-T	IC	2	
L12	VLQ0479	COIL	1	
L13	VLQ0605	COIL	1	
L14	VLQ0354	COIL	1	
L15	VLQ0605	COIL	1	
L16	VLQ0354	COIL	1	
L17,18	VLQ0655K220	COIL	2	
L19-22	VLP0074	COIL	4	
P11	VJP2824B003	CONNECTOR (MALE)	1	
P12	VJP2824B006	CONNECTOR (MALE) 6P	1	
P13	VJP2824B008	CONNECTOR (MALE)	1	
P14	VJP1243T	CONNECTOR (MALE) 3P	1	
⚠ Q11,12	2SK1684	TRANSISTOR	2	
⚠ Q13-16	PS2561L1-1	PHOTO CUPPLER	4	
Q18	UN1214	TRANSISTOR-RESISTOR	1	
Q19	UN1114	TRANSISTOR-RESISTOR	1	
R50	ERG2SJ470	M.RESISTOR 2W 47	1	
R51,52	ERDS2FJ183	C.RESISTOR 1/4W 18K	2	
R53	ER0S2CKF1801	M.RESISTOR 1/4W 1.8K	1	
R54	ERG2SJ470	M.RESISTOR 2W 47	1	
R55	VRT0033	THERMISTOR	1	
R56	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R57	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R58	ER0S2CKF3601	M.RESISTOR 1/4W 3.6K	1	
R59	ER0S2CKF4700	M.RESISTOR 1/4W 470	1	
R60	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R63	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R64	ERG2SJ681	M.RESISTOR 2W 680	1	
R65	ERG2SJ221	M.RESISTOR 2W 220	1	
R66	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R67	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R68	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R69	ER0S2CKF6801	M.RESISTOR 1/4W 6.8K	1	
R70	ER0S2CKF1601	M.RESISTOR 1/4W 1.6K	1	
R71	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R72	ERG3SJ393	M.RESISTOR 3W 39K	1	
R73	ERG2SJ180	M.RESISTOR 2W 18	1	
R74	ERDS2FJ100	C.RESISTOR 1/4W 10	1	
R75	ERDS2FJ104	C.RESISTOR 1/4W 100K	1	
R76	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R77	ERG3SJ393	M.RESISTOR 3W 39K	1	
R78	ERG2SJ180	M.RESISTOR 2W 18	1	
R79	ERDS2FJ100	C.RESISTOR 1/4W 10	1	
R80	ERDS2FJ104	C.RESISTOR 1/4W 100K	1	
R81	ERW1PKR33	W.RESISTOR 1W 0.33	1	
⚠ T1	VLT0860	TRANSFORMER	1	
⚠ T2	VLT0861	TRANSFORMER	1	
VR1,R2	VRV0112B501	V.RESISTOR 500	2	
		MISCELLANEOUS		
	VSC4389	HEAT SINK (A)	1	
	VSC4390	HEAT SINK (B)	1	
	XYN3+F8	SCREW	7	
	VEE9624	REEL DRIVE CABLE	1	
	VEE9625	CTL CABLE	1	
⚠	VMZ2504	INSULATION SHEET	1	
	XYN3+C8FZS	SCREW	4	
	XYE3+EF8	SCREW	4	
	VEE0C18	GND CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E15	VEP81184B	POWER 2 P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
C1002,03	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	2	
C1004-07	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C1008	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C1009,10	ECA1HXLV220	E.CAPACITOR 50V 22U	2	
C1011	ECA1HXLV010	E.CAPACITOR 50V 1U	1	
C1012	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C1013	ECA1HXLV010	E.CAPACITOR 50V 1U	1	
C1015	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C1016	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1017	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C1018	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1019	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C1020	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C1021	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1022	ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C1023	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1024	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1026	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1027,28	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1040,41	EEUFA1A332L	E.CAPACITOR 10V 3300U	2	
C1042	EEUFA1V471	E.CAPACITOR 35V 470U	1	
C1043	EEUFA1E332	E.CAPACITOR 25V 3300U	1	
C1044,45	EEUFA1C222LE	E.CAPACITOR 16V 2200P	2	
C1046	EEUFA1E681E	E.CAPACITOR 25V 680P	1	
C1047,48	ECA1CXL101	E.CAPACITOR 16V 100U	2	
C1049	ECA1VHG471	E.CAPACITOR 35V 100U	1	
C1050	ECA1EXLV101	E.CAPACITOR 25V 100U	1	
C1051-53	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C1054	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1055	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1056	ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	1	
C1059	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1060	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C1062	VCK0106K151	C.CAPACITOR 150P	1	
C1063	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1065	VCK0106K151	C.CAPACITOR 150P	1	
C1066	ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1067,68	ECQE6473KF	P.CAPACITOR 630V 0.047U	2	
C1069-75	ECKD2H101KB	C.CAPACITOR 500V 100P	7	
C1076-78	EEUFA1A822E	E.CAPACITOR 10V 8200P	3	
C1079	ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C1080,81	ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	2	
C1083	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1085	EEUFA1C222LE	E.CAPACITOR 16V 2200P	1	
C1086	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1087	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1088	EEUFA1A822E	E.CAPACITOR 10V 8200P	1	
C1089	ECA1HXS100	E.CAPACITOR 50V 10U	1	
C1090-93	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C1094	ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1095	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1096	ECA1CXL101	E.CAPACITOR 16V 100U	1	
C1097,98	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	2	
C1099	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D1001	MA151WK	DIODE	1	
D1004	MA151K	DIODE	1	
D1005	MA151WK	DIODE	1	
D1007	MA3082-H	DIODE	1	
D1008	MA3051-M	DIODE	1	
D1009	MA153	DIODE	1	
D1010	U1GU44	DIODE	1	
D1011	MA151K	DIODE	1	
D1012	MA3240-H	DIODE	1	
D1013,14	U1GU44	DIODE	2	
D1015	MA3240-H	DIODE	1	
D1017	U1GU44	DIODE	1	
D1018,19	MA3051-M	DIODE	2	
D1020-22	MA151K	DIODE	3	
D1023,24	MA3051-M	DIODE	2	
D1030	D30SC4M	DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D1031	FML-G12SP	DIODE	1	
D1032	RL4ZP	DIODE	1	
D1033, 34	FML-G12SP	DIODE	2	
D1035	FMB-G14L	DIODE	1	
D1036	FML-G12SP	DIODE	1	
D1037, 38	MA3075-M	DIODE	2	
D1039	MA3240-H	DIODE	1	
D1040	MA3160-L	DIODE	1	
D1041, 42	MA3130-L	DIODE	2	
D1043	MA3160-L	DIODE	1	
D1044, 45	U05NU44	DIODE	2	
D1046	EG01C	DIODE	1	
D1047	U1GU44	DIODE	1	
D1048	MA3240-H	DIODE	1	
D1049	EG01C	DIODE	1	
D1050	U1GU44	DIODE	1	
D1051	MA3240-H	DIODE	1	
D1052	MA151K	DIODE	1	
IC1001, 02	FA5311BP	IC	2	
IC1011, 12	UPC1093J-T	IC	2	
IC1013	UPC393C	IC	1	
IC1014	PQ30RV31	IC	1	
J1001	VWJ0121	CABLE	1	
L1012	VLQ0479	COIL	1	
L1013	VLQ0605	COIL	1	
L1014	VLQ0655K220	COIL	1	
L1015, 16	VLQ0605	COIL	2	
L1017	VLQ0354	COIL	1	
L1018	VLQ0655K220	COIL	1	
L1019	VLP0074	COIL	1	
L1021, 22	VLP0074	COIL	2	
P1011	VJP2824B003	CONNECTOR (MALE)	1	
P1012	VJP2824B009	CONNECTOR (MALE)	1	
P1013	VJP2824B008	CONNECTOR (MALE)	1	
P1014	VJP1243T	CONNECTOR (MALE) 3P	1	
P1015	VJP4033	CONNECTOR (MALE)	1	
Q1002, 03	2SD1478-R	TRANSISTOR	2	
Q1004	2SB710-R	TRANSISTOR	1	
Q1005	UN2213	TRANSISTOR-RESISTOR	1	
Q1006, 07	2SB709-R	TRANSISTOR	2	
Q1011, 12	2SK2258-01	TRANSISTOR	2	
⚠ Q1013-15	PS2561L1V1WL	TRANSISTOR	3	
Q1017	UN2214	TRANSISTOR-RESISTOR	1	
Q1018	UN2211	TRANSISTOR-RESISTOR	1	
Q1019	UN2111	TRANSISTOR-RESISTOR	1	
⚠ Q1020	PS2561L1V1WL	TRANSISTOR	1	
Q1022	UN2113	TRANSISTOR-RESISTOR	1	
Q1023	UN2213	TRANSISTOR-RESISTOR	1	
Q1024	UN2214	TRANSISTOR-RESISTOR	1	
R1001-05	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	5	
R1006	ERG2SJ681	M.RESISTOR 2W 680	1	
R1007, 08	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	2	
R1009	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1010	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1011	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1012, 13	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	2	
R1014	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1016	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1017	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1018, 19	ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	2	
R1020	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1021	ERG3SJ333	M.RESISTOR 3W 33K	1	
R1023, 24	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	
R1026	ERJ6GEYG683	M.RESISTOR CH 1/10W 68K	1	
R1027	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
R1028	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R1029	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1030	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R1031	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1033, 34	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	2	
R1036	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1037	ERJ6RBD472	M.RESISTOR CH 1/10W 4.7K	1	
R1038	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R1039	ERJ6RBD681	M.RESISTOR CH 1/10W 680	1	
R1040, 41	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	2	
R1042	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R1043	ERJ6RBD621	M.RESISTOR CH 1/10W 620	1	
R1044	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R1046, 47	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	2	
R1048, 49	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R1050	ERG2SJ470	M.RESISTOR 2W 47	1	
R1051, 52	ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	2	
R1053	ERJ6RBD182	M.RESISTOR CH 1/10W 1.8K	1	
R1054	ERG2SJ470	M.RESISTOR 2W 47	1	
R1055	VRT0142	THERMISTOR	1	
R1056	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1057	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1058	ERJ6RBD362	M.RESISTOR CH 1/10W 3.6K	1	
R1059	ERJ6RBD471	M.RESISTOR CH 1/10W 470	1	
R1060	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1061	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1062	VRT0033	THERMISTOR	1	
R1063	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1064, 65	ERG2SJ681	M.RESISTOR 2W 680	2	
R1066	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1067	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R1068	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1069	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R1070	ERJ6RBD162	M.RESISTOR CH 1/10W 1.6K	1	
R1071	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1072	ERG3SJ333	M.RESISTOR 3W 33K	1	
R1073	ERG2SJ180	M.RESISTOR 2W 18	1	
R1074	ERJ14YJ390	M.RESISTOR 1/4W 39	1	
R1075	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1076	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1077	ERG3SJ333	M.RESISTOR 3W 33K	1	
R1078	ERG2SJ180	M.RESISTOR 2W 18	1	
R1079	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1080	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1081	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1082, 83	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1084	ERJ6RBD132	M.RESISTOR CH 1/10W 1.3K	1	
R1085, 86	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1087	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1088	VRE0206	M.RESISTOR	1	
R1089	ERJ14YJ154	M.RESISTOR CH 1/4W 150K	1	
R1090	ERJ6RBD122	M.RESISTOR CH 1/10W 1.2K	1	
R1091, 92	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R1093, 94	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R1095	ERX2SZJR10	M.RESISTOR 2W 0.1	1	
R1097	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R1098	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1099	ERG3SJ333	M.RESISTOR 3W 33K	1	
⚠ T1001	VLT0899	TRANSFORMER	1	
⚠ T1002	VLT0900	TRANSFORMER	1	
VR1001, 02	VRV0112B501	V.RESISTOR 500	2	
		MISCELLANEOUS		
	VLP0336	FERRITE BEAD	8	
	VLP0337	AMORPHOUS BEAD	2	
	VLP0394	FERRITE BEAD	3	
	VSC4779	HEAT SINK (A)	1	
	VSC4778	HEAT SINK (F)	1	
	XYN3+F8	SCREW	13	
	XYN3+F6	SCREW	2	
	VJR1008	EARTH LUG	2	
	XYN3+F10	SCREW	2	
	XYE3+EF8	SCREW	4	
	VSC4707	HEAT SINK	1	
⚠	VMZ2779	INSULATION	1	
	VEE0C18	POWER GND CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VSC4780	HEAT SINK (D)	1	
	VMZ2919	BARRIER	2	
■ E16	VEP82216B	MECH I/F P.C.BOARD	1	(RTL)
C1	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C2-C5	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C6	ECEV1CV220Q	E.CAPACITOR CH 16V 22U	1	
C7	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C9,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C13,14	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	2	
C15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C20	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C22	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C100	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C101	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C102	ECA1HEN101	E.CAPACITOR 50V 100U	1	
C103	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C104	ECEV1CV100Q	E.CAPACITOR CH 16V 10U	1	
C200-02	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA157	DIODE	1	
D100-02	MA738	DIODE	3	
IC1,C2	OP177GS	IC	2	
IC3	NJM4580ED	IC	1	
IC4-C6	UPC4558G2	IC	3	
IC10	NJM78L09UA	IC	1	
IC11	NJM79L09UA	IC	1	
IC100	MC14538BF	IC	1	
L1,L2	VLF1016A470	FILTER	2	
L100	VLP0133	COIL	1	
P1	VJP2891A030	CONNECTOR (MALE)	1	
P2	VJP3418A080	CONNECTOR (MALE)	1	
P11	VJP3172D002	CONNECTOR (MALE)	1	
P12	VJP3172D005	CONNECTOR (MALE)	1	
P13	VJP3172D002	CONNECTOR (MALE)	1	
P14	VJP3172D003	CONNECTOR (MALE)	1	
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801B010	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	
P30	VJP3172D003	CONNECTOR (MALE)	1	
P32	VJP3172D004	CONNECTOR (MALE)	1	
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P41	VJP3172D002	CONNECTOR (MALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	
Q1	2SB1218A-R	TRANSISTOR	1	
Q100,01	2SB766-R	TRANSISTOR	2	
QR100,01	UN2214	TRANSISTOR-RESISTOR	2	
R1	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2,R3	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R4	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R5	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R6	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R7	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R8	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R9	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R11	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R12,13	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	2	
R14	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R15	ERJ6RBD823	M.RESISTOR CH 1/10W 82K	1	
R16	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R17	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R18	ERJ6RBD392	M.RESISTOR CH 1/10W 3.9K	1	
R19	ERJ6RBD103	M.RESISTOR CH 1/10W 10K	1	
R20	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R21	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R22	ERJ6RBD473	M.RESISTOR CH 1/10W 47K	1	
R23	ERJ6RBD682	M.RESISTOR CH 1/10W 6.8K	1	
R24	ERJ6RBD222	M.RESISTOR CH 1/10W 2.2K	1	
R25	ERJ6RBD391	M.RESISTOR CH 1/10W 390	1	
R36,37	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R100	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R101	ERJ8GCYJ102	M.RESISTOR CH 1/8W 1K	1	
R102	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R103	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R104	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R105	ERJ8GCYJ102	M.RESISTOR CH 1/8W 1K	1	
R200	ERJ6GEYG752	M.RESISTOR CH 1/10W 7.5K	1	
R201	ERJ6GEYG242	M.RESISTOR CH 1/10W 2.4K	1	
R202	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
R203	ERJ6GEYG752	M.RESISTOR CH 1/10W 7.5K	1	
R204	ERJ6GEYG242	M.RESISTOR CH 1/10W 2.4K	1	
R205	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1	
SW200	VSS023706	SWITCH	1	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
■ E17	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE) 9P	1	
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	
■ E18	VEP84291A	A JACK P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
C1,C2	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7,C8	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C101	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C102	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C103	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C104	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C105-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C109	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C110	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C111	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C112	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C113-17	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C121,22	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1,D2	MA152K	DIODE	2	
D3,D4	MA3130-L	DIODE	2	
IC1	NJM78L09UA	IC	1	
IC2	NJM79L09UA	IC	1	
J1,J2	VJS3417	CONNECTOR (FEMALE)	2	
J7,J8	VJP3417	CONNECTOR (MALE)	2	
P1	VJP3375A060	CONNECTOR (MALE)	1	
P2	VJP3094	CONNECTOR (MALE)	1	
Q1	2SA1022-C	TRANSISTOR	1	
Q2	2SC2295-C	TRANSISTOR	1	
Q3	2SA1022-C	TRANSISTOR	1	
Q5	2SB709A-R	TRANSISTOR	1	
Q6,Q7	2SD601A-R	TRANSISTOR	2	
Q8	2SB709A-R	TRANSISTOR	1	
Q9,10	2SD601A-R	TRANSISTOR	2	
Q11	UN2112	TRANSISTOR-RESISTOR	1	
Q12	2SD601A-R	TRANSISTOR	1	
Q13	UN2213	TRANSISTOR-RESISTOR	1	
R2	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R26	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R32	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R101	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R103	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R104	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R105,06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R107	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R108	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R109	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R110	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R111	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R112	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R116	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R117,18	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R119	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R120	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R121,22	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R123	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R124	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R125,26	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R127	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R128	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R129,30	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R131	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R132	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R133	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R134,35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R136	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R137	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R138	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R139	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R140	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
		MISCELLANEOUS		
	VMP4867	XLR GUIDE ANGLE (A)	1	
	XYN26+F8	SCREW	2	
■ E18	VEP84291E	A JACK P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
C1,C2	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C7,C8	ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C101	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C102	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C103	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C104	ECA1CXS470	E.CAPACITOR 16V 47U	1	
C105-08	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	4	
C109	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C110	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C111	ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C112	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C113-17	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	5	
C121,22	ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
D1,D2	MA152K	DIODE	2	
D3,D4	MA3130-L	DIODE	2	
IC1	NJM78L09UA	IC	1	
IC2	NJM79L09UA	IC	1	
J7,J8	VJP3417	CONNECTOR (MALE)	2	
P1	VJP3375A060	CONNECTOR (MALE)	1	
P2	VJP3094	CONNECTOR (MALE)	1	
Q1	2SA1022-C	TRANSISTOR	1	
Q2	2SC2295-C	TRANSISTOR	1	
Q3	2SA1022-C	TRANSISTOR	1	
Q5	2SB709A-R	TRANSISTOR	1	
Q6,Q7	2SD601A-R	TRANSISTOR	2	
Q8	2SB709A-R	TRANSISTOR	1	
Q9,10	2SD601A-R	TRANSISTOR	2	
Q11	UN2112	TRANSISTOR-RESISTOR	1	
Q12	2SD601A-R	TRANSISTOR	1	
Q13	UN2213	TRANSISTOR-RESISTOR	1	
R2	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R6	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R8	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R26	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R28	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R30	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R32	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R101	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R103	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R104	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R105,06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R107	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
R108	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R109	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R110	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R111	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R112	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R116	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R117,18	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R119	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R120	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R121,22	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R123	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R124	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R125,26	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	2	
R127	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
R128	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R129,30	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R131	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R132	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R133	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	
R134,35	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	2	
R136	ERJ6GEYG105	M.RESISTOR CH 1/10W 1M	1	
R137	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R138	ERJ6GEYF393	M.RESISTOR CH 1/10W 39K	1	
R139	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R140	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMP4867	XLR GUIDE ANGLE (A)	1	
	XYN26+F8	SCREW	2	
■ E19	VEP80A12A	SUB JACK P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
J1,J2	VJS3155	CONNECTOR (FEMALE)	2	
J3,J4	VJS3154	CONNECTOR (FEMALE)	2	
J5	VJJ0322	MONITOR JACK	1	
P1	VJP3094	CONNECTOR (MALE)	1	
		MISCELLANEOUS		
	VSC4617	RCA SHIELD PLATE	1	
■ E19	VEP80A12B	SUB JACK P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
J2	VJS3155	CONNECTOR (FEMALE)	1	
J4	VJS3154	CONNECTOR (FEMALE)	1	
J5	VJJ0322	MONITOR JACK	1	
P1	VJP3094	CONNECTOR (MALE)	1	
		MISCELLANEOUS		
	VSC4617	RCA SHIELD PLATE	1	
■ E20	VEP80A09A	EJECT P.C.BOARD	1	(RTL)
P5	VJP1243T	CONNECTOR (MALE) 3P	1	
SW1	VSP1005	SWITCH	1	
■ E21	VEP86256A	FRONT CPU P.C.BOARD	1	(RTL)FOR AJ-D450P/D450E
C1	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C2	ECEV1HV2R2Q	E.CAPACITOR CH 50V 2.2U	1	
C3	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4,C5	ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C7-12	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	6	
C13	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C14	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C15-17	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	3	
C18	ECEA0JGE471	E.CAPACITOR 6.3V 470U	1	
C19	ECEV1HV010Q	E.CAPACITOR CH 50V 1U	1	
C20,21	ECUX1H333KBN	C.CAPACITOR CH 50V 0.033U	2	
C22	ECEA1HGE330	E.CAPACITOR 50V 33U	1	
C23	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	1	
C24	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C25,26	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C27	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	
C28,29	ECUM1E104ZFN	C.CAPACITOR CH 25V 0.1U	2	
C30	ECEV1CV470Q	E.CAPACITOR CH 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C31,32	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C33	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C34,35	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	2	
C36	ECEV1CN100Q	E.CAPACITOR CH 16V 10U	1	
C40	ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
D1	LN28RCPP	LED	1	
D2-D5	LN38GCPP	LED	4	
D7-14	MA152WK	DIODE	8	
D15-18	MA152K	DIODE	4	
D19	MA152WK	DIODE	1	
D20-24	MA152K	DIODE	5	
D25	MA4300-M	DIODE	1	
D26	MA166	DIODE	1	
D27	MA4062	DIODE	1	
D28,29	MA166	DIODE	2	
DP1	VSL0489	DISPLAY	1	
F1	EYP2BN135	FUSE	1	
FL1-L4	VLF1016A470	FILTER	4	
IC1	HD64180ZRP8	IC	1	
IC2	VSI2386C	IC	1	
IC3	K6256DLG7L	IC	1	
IC4	TL7705CPSB	IC	1	
IC5	74F32SJ	IC	1	
IC6	MC74HC04AF	IC	1	
IC7	MC74HC32AF	IC	1	
IC8	UPD71055GB	IC	1	
IC9	MC74HC4538AF	IC	1	
IC10	MC34051M	IC	1	
IC11	UPD16310GF	IC	1	
IC12	NJM78L09UA	IC	1	
IC13	NJM79L09UA	IC	1	
IC14,15	NJM4580ED	IC	2	
IS2	VJS2336A032	CONNECTOR (FEMALE)	1	
L1	VLP0133	COIL	1	
P1	VJP1243T	CONNECTOR (MALE) 3P	1	
P2	VJP3095	CONNECTOR (MALE)	1	
P3	VJP3088	CONNECTOR (MALE)	1	
P4	VJP3091	CONNECTOR (MALE)	1	
Q1-Q5	2SD601A-R	TRANSISTOR	5	
Q6,Q7	2SC1815Y	TRANSISTOR	2	
Q8	2SC3074Y	TRANSISTOR	1	
QR1-R3	UN2214	TRANSISTOR-RESISTOR	3	
R1	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R8-15	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	8	
R16	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R17	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R18-25	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	8	
R26,27	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R28	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R29,30	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R31	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R32,33	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R34	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R35,36	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R37	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R38,39	ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	2	
R40	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R44	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R49,50	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	2	
R51,52	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	2	
R53	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R54	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R55	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R56,57	ERDS2TJ221	C.RESISTOR 1/4W 220	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R58	ERDS2TJ220	C. RESISTOR 1/4W 22	1	
R59	ERJ8GCYJ103	M. RESISTOR CH 1/8W 10K	1	
R60, 61	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R63	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R64, 65	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R67	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R68, 69	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R72	ERDS2T0	C. RESISTOR 1/4W 0	1	
SW2-W8	VSP1005	SWITCH	7	
SW9-16	VSP1031	SWITCH	8	
SW17, 18	VSS0280	SWITCH	2	
SW19, 20	VSS0346	SWITCH	2	
SW21, 22	VSS0280	SWITCH	2	
SW23	VSS0346	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TR1	VLT0884	TRANSFORMER	1	
VR1, R2	EVUFSAE03A14	V. RESISTOR 10K	2	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VMX1858	SPACER	5	
	VJF1296	LCD HOLDER	1	
■ E21	VEP86256B	FRONT CPU P.C.BOARD	1	(RTL)FOR AJ-D440P/D440E
C1	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C2	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	
C3	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
C4, C5	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	2	
C6	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C7-12	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	6	
C13	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C14	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
C15-17	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	3	
C18	ECEA0JGE471	E. CAPACITOR 6.3V 470U	1	
C19	ECEV1HV010Q	E. CAPACITOR CH 50V 1U	1	
C20, 21	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	2	
C22	ECEA1HGE330	E. CAPACITOR 50V 33U	1	
C23	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	1	
C24	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C25, 26	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C27	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C28, 29	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U	2	
C30	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	
C31, 32	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C33	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C34, 35	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	2	
C36	ECEV1CN100Q	E. CAPACITOR CH 16V 10U	1	
C40	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1	
D1	LN28RCPP	LED	1	
D2-D5	LN38GCPP	LED	4	
D7-14	MA152WK	DIODE	8	
D15-18	MA152K	DIODE	4	
D19	MA152WK	DIODE	1	
D20-24	MA152K	DIODE	5	
D25	MA4300-M	DIODE	1	
D26	MA166	DIODE	1	
D27	MA4062	DIODE	1	
D28, 29	MA166	DIODE	2	
DP1	VSL0489	DISPLAY	1	
F1	EYP2BN135	FUSE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL1-L4	VLF1016A470	FILTER	4	
IC1	HD64180ZRP8	IC	1	
IC2	VSI2386C	IC	1	
IC3	K6256DLG7L	IC	1	
IC4	TL7705CPSB	IC	1	
IC5	74F32SJ	IC	1	
IC6	MC74HC04AF	IC	1	
IC7	MC74HC32AF	IC	1	
IC8	UPD71055GB	IC	1	
IC9	MC74HC4538AF	IC	1	
IC10	SN75C1168NS	IC	1	
IC11	UPD16310GF	IC	1	
IC12	NJM78L09UA	IC	1	
IC13	NJM79L09UA	IC	1	
IS2	VJS2336A032	CONNECTOR (FEMALE)	1	
L1	VLP0133	COIL	1	
P1	VJP1243T	CONNECTOR (MALE) 3P	1	
P2	VJP3095	CONNECTOR (MALE)	1	
P3	VJP3088	CONNECTOR (MALE)	1	
P4	VJP3091	CONNECTOR (MALE)	1	
Q1-Q5	2SD601A-R	TRANSISTOR	5	
Q6, Q7	2SC1815Y	TRANSISTOR	2	
Q8	2SC3074Y	TRANSISTOR	1	
QR1-R3	UN2214	TRANSISTOR-RESISTOR	3	
R1	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R8-15	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	8	
R16	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R17	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
R18-25	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	8	
R26, 27	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R28	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R29, 30	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R31	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R32, 33	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R34	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R35, 36	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R37	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R38, 39	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K	2	
R40	ERJ6GEYG221	M. RESISTOR CH 1/10W 220	1	
R44	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R49, 50	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K	2	
R51, 52	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	2	
R53	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1	
R54	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	
R55	ERDS2TJ222	C. RESISTOR 1/4W 2.2K	1	
R56, 57	ERDS2TJ221	C. RESISTOR 1/4W 220	2	
R58	ERDS2TJ220	C. RESISTOR 1/4W 22	1	
R59	ERJ8GCYJ103	M. RESISTOR CH 1/8W 10K	1	
R60, 61	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	2	
R63	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R64, 65	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R67	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K	1	
R68, 69	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	2	
R72	ERDS2T0	C. RESISTOR 1/4W 0	1	
SW2-W8	VSP1005	SWITCH	7	
SW9-16	VSP1031	SWITCH	8	
SW17, 18	VSS0280	SWITCH	2	
SW23	VSS0346	SWITCH	1	
TG1	EYF6CU	TEST POINT	1	
TR1	VLT0884	TRANSFORMER	1	
X1	VSX0641	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VMX1858	SPACER	5	
	VJF1296	LCD HOLDER	1	
■ E22	VEP80A10A	HEAD PHONE P.C.BOARD	1	(RTL)
FL1,L2	VLF1356	FILTER	2	
IC1	NJM4556AD	IC	1	
J1	VJJ0378	M6 JACK	1	
P1	VJP3076	CONNECTOR (MALE)	1	
Q1,Q2	2SD1330-S	TRANSISTOR	2	
R1,R2	ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R3,R4	ERDS1TJ150	C.RESISTOR 1/2W 15	2	
R5,R6	ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
VR1	EVUNCA040A14	V.RESISTOR 10K	1	
		MISCELLANEOUS		
	VMP5241	FRONT JACK ANGLE	1	
	XTV3+6F	SCREW	1	
	VMP5137	H.P. GND ANGLE	1	
■ E23	VEP80A58A	POWER CONNECTION P.C.BOARD	1	(RTL)FOR AJ-D450E/D440E
		MISCELLANEOUS		
	VJS4033	CONNECTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Service Manua

Vol. 2

DVCPRO
DIGITAL VIDEO CASSETTE

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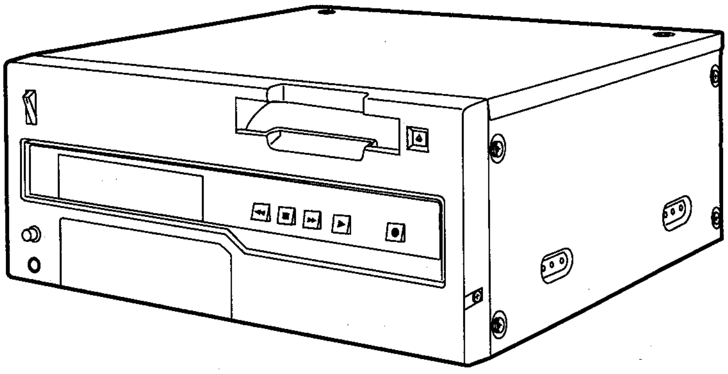
Sec. 7 *Schematic Diagrams*
Sec. 8 *Circuit Board Diagrams*

Digital Video Cassette Player

AJ-D440P/E

Digital Video Cassette Recorder

AJ-D450P/E



Please refer to the Service Manual Volume 1 (order No. VSD9907M904A) for Operating Instructions, Service Information, Maintenance & Mechanical Adjustments, Electrical Adjustments and Expoded Views & Replacement Parts List.

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⚠ WARNING

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It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicans. Any attempt to service or repair the product or products deal with in this service manual by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains echnical information which will allow service personnels to understand and sercice the DVCPRO Studio VTR AJ-D440P/E and AJ-D450P/E.

If the part or circuit is changed or modified, this information will be followed by supplimentary service manual to be filed with original manual.

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SECTION 6. Block Diagrams BLK-1

SECTION 7. Schematic Diagrams SCM-1

SECTION 8. Circuit Board Diagrams PCB-1

Specifications

AJ-D440P AJ-D450P

GENERAL

Power supply:	AC 120 V, 50 – 60 Hz
Power consumption:	AJ-D440; 120 W AJ-D450; 150 W

Operating ambient temperature:	41°F to 104°F (5°C to 40°C)	
Operating ambient humidity:	10% to 90% (no condensation)	
Weight:	AJ-D440; 33 lbs (15 kg) AJ-D450; 34.98 lbs (15.9 kg)	
Dimensions (W × H × D):	16-3/4 × 6-15/16 ×16-3/8 inches (424 × 175 × 415 mm)	
Recording format:	DVCPRO format	
Recording tracks:	Digital video	Recorded in sub-code area
	Time code;	2channels
	Digital audio;	1 track
	Cue Track;	1 track
	Control (CTL);	
Tape speed:	33.820 mm/sec	
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)	
Tape:	1/4-inch thin magnetic layer metal tape	
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)	
Editing accuracy*:	±0 frame (using time code)	
Tape timer accuracy:	±1 frame (using continuous CTL signal)	
Servo lock time:	Less than 0.5 sec. (color framing/ standby ON)	

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analog component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (±1.0 dB) PB, PR; 30 Hz to 1.0 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analog component IN/component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) PB, PR; 30 Hz to 1.0 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analog composite IN/composite OUT)

Video bandwidth:	Y; 30 Hz to 4.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3°
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analog component input*:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Reference input:	Analog composite BNC×2, loop-through, 75Ω on/off
Serial digital component input (option)*:	Complies with SMPTE259M-C standard, BNC×2, active through

(Video output connector)

Analog component output:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite output:	BNC×3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with SMPTE259M-C standard, BNC×3

(Video signals adjustment)

Video output gain:	±3 dB	Control from ENCODER REMOTE connector
Video output chroma gain:	±3 dB	
Video output hue:	±30°	
Video output setup:	±15 IRE	
Video output sync phase:	±2 µs	
Video output SC phase:	±180°	

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	20 dB
De-emphasis:	T1=50 µs/T2=15 µs (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analog input (CH1/CH2):	XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital input (option):	Complies with SMPTE259M-C, 272M standard (BNC)

(Audio output connector)

Analog output (CH1/CH2):	XLR×2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC×1, AES/EBU format
Serial digital output (option):	Complies with SMPTE259M-C, 272M standard (BNC)
Monitor output:	Phono×1, 600 Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

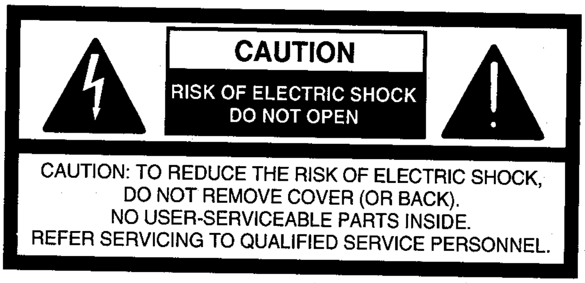
Time code input*:	BNC×1, 0.5 to 8 Vp-p
Time code output:	BNC×1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

*** Items marked with an asterisk (*) indicate AJ-D450 only.**

IMPORTANT
"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

AJ-D440P AJ-D450P



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

WARNING:

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

FCC Note:
This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

☐ is the safety information.

- Do not insert fingers or any objects into the video casette holder.
- Avoid operating or leaving the unit near strong magnetic fields. Be especially careful of large audio speakers.
- Avoid operating or storing the unit in an excessively hot, cold, or damp environment as this may result in damage both to the recorder and to the tape.
- Do not spray any cleaner or wax directly on the unit.
- If the unit is not going to be used for a length of time, protect it from dirt and dust.
- Do not leave a cassette in the recorder when not in use.
- Do not block the ventilation slots of the unit.
- Use this unit horizontally and do not place anything on the top panel.
- Cassette tape can be used only for one-side, one direction recording. Two-way or two-track recordings cannot be made.
- Cassette tape can be used for either Color or Black & White recording.
- Do not attempt to disassemble the recorder. There are no user serviceable parts inside.
- If any liquid spills inside the recorder, have the recorder examined for possible damage.
- Refer any needed servicing to authorized service personnel.

AJ-D440E AJ-D450E

Specifications

GENERAL

Power supply:	AC 220 V – 240 V, 50 – 60 Hz
Power consumption:	AJ-D440; 130 W AJ-D450; 150 W

Operating ambient temperature:	5ϒC to 40ϒC
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	AJ-D440; 14.6 kg AJ-D450; 15.5 kg
Dimensions (W × H × D):	424 × 175 × 415 mm
Recording format:	DVCPRO format
Recording tracks:	Digital video Time code; Recorded in sub-code area Digital audio; 2 channels Cue Signal; 1 track Control (CTL); 1 track
Tape speed:	33.854 mm/sec.
Recording time:	184 minutes (with AJ-5P92LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-5P92LP) Less than 2 min (with AJ-P66MP)
Editing accuracy*:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing:	8 bits
Error correction:	Reed-Solomon product code

(Digital IN/analogue component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (±1.0 dB) PB, PR; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analogue component IN/component OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) PB, PR; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analogue composite IN/composite OUT)

Video bandwidth:	Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3ϒ
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)*

Analogue component input*:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input*:	BNC×2, loop-through, 75Ω on/off
S VIDEO input*:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Reference input:	Analogue composite BNC × 2, loop-through, 75Ω on/off
Serial digital component input (option)*:	Complies with EBU Tech. 3267-E standard, BNC × 2, active through

(Video output connector)

Analogue component output:	BNC × 3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output:	BNC × 3 Video1/video2/video3 (superimpose on/off)
S VIDEO output:	S terminal (4-pin) × 1 Y; 1.0 Vp-p, 75Ω C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with EBU Tech. 3267-E standard, BNC × 3

(Video signals adjustment)

Video output gain:	±3 dB	Control from ENCODER REMOTE connector
Video output chroma gain:	±3 dB	
Video output chroma phase:	±30ϒ	
Video output black level:	±100 mV	
Video output sync phase:	±2 µsec	
Video output SC phase:	±180ϒ	

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	18 dB
De-emphasis:	T1 = 50 µsec/T2 = 15 µsec (on/off automatic)

(Cue track)

Frequency response:	300 Hz to 6 kHz ±3 dB

(Audio input connector)*

Analogue input (CH1/CH2):	XLR × 2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital input (option):	Complies with EBU Tech. 3267-E standard (BNC)

(Audio output connector)

Analogue output (CH1/CH2):	XLR × 2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2) (option):	BNC × 1, AES/EBU format
Serial digital output (option):	Complies with EBU Tech. 3267-E standard (BNC)
Monitor output:	Phono×1, 600Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input*:	BNC × 1, 0.5 to 8 Vp-p
Time code output:	BNC × 1, 2.0 Vp-p
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin

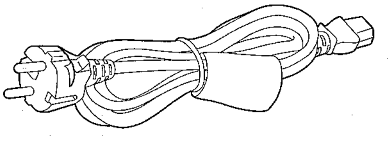
*** Items marked with an asterisk (*) indicate AJ-D450 only.**

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

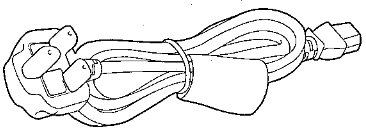
Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC.
Not to be used in the U.K.



FOR U.K. ONLY
If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.



FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ◈ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

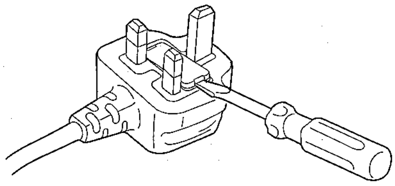
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

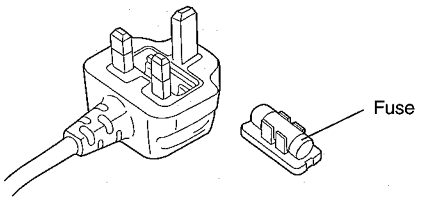
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



IMPORTANT

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- **THIS APPARATUS MUST BE EARTHED**

  To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

  Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

  The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

- **DO NOT REMOVE PANEL COVER BY UNSCREWING**

  To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSOIRES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL.

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio singals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

CAUTION:

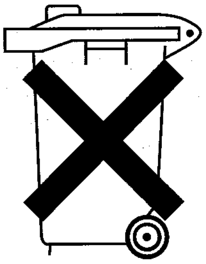
Do not install or place this unit in a bookcase, built-in cabinet or another confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

▭ is the safety information.

Attention/Attentie

- This apparatus contains a lithium battery for memory back-up.
- For the removal of the battery at the moment of the disposal at the end of the service life please consult your dealer.
- Do not throw away the battery. Instead, hand it in as hazardous waste.

- Dit apparaat bevat een lithiumbatterij voor memory back-up.
- Raadpleeg uw leverancier over de verwijdering van de batterij op het moment dat u het apparaat bij einde levensduur afdankt.
- Gooi de batterij niet weg, maar lever hem in als KCA.



SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

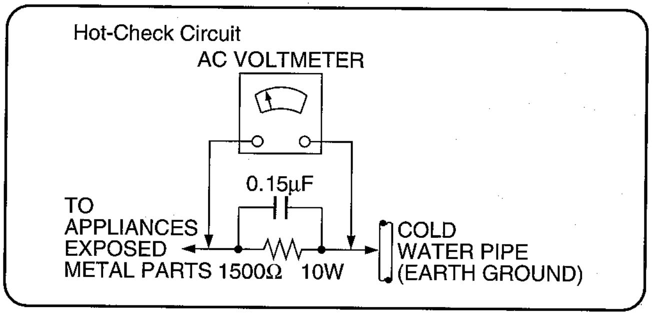

Hot-Check Circuit
AC VOLTMETER
0.15μF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

LEAKAGE CURRENT HOT CHECK (See Figure 1.)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 W resistor, in parallel with a 0.15μF capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ± 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

SECTION 6

BLOCK DIAGRAM

CONTENTS

VIDEO OVERALL BLOCK DIAGRAM..BLK-1

AUDIO OVERALL BLOCK DIAGRAM BLK-2

RF OVERALL BLOCK DIAGRAM..BLK-3

F1: SERVO BLOCK DIAGRAM..BLK-4

F2: SYSCON BLOCK DIAGRAM BLK-5

F4: V OUT 1/2 BLOCK DIAGRAM BLK-6

F4: V OUT 2/2 BLOCK DIAGRAM BLK-7

F5: REC PB BLOCK DIAGRAM...BLK-8

F6: V IN BLOCK DIAGRAM BLK-9

F7: A PROC BLOCK DIAGRAM BLK-10

F8: ADDA CUE 1/2 BLOCK DIAGRAM.......................................BLK-11

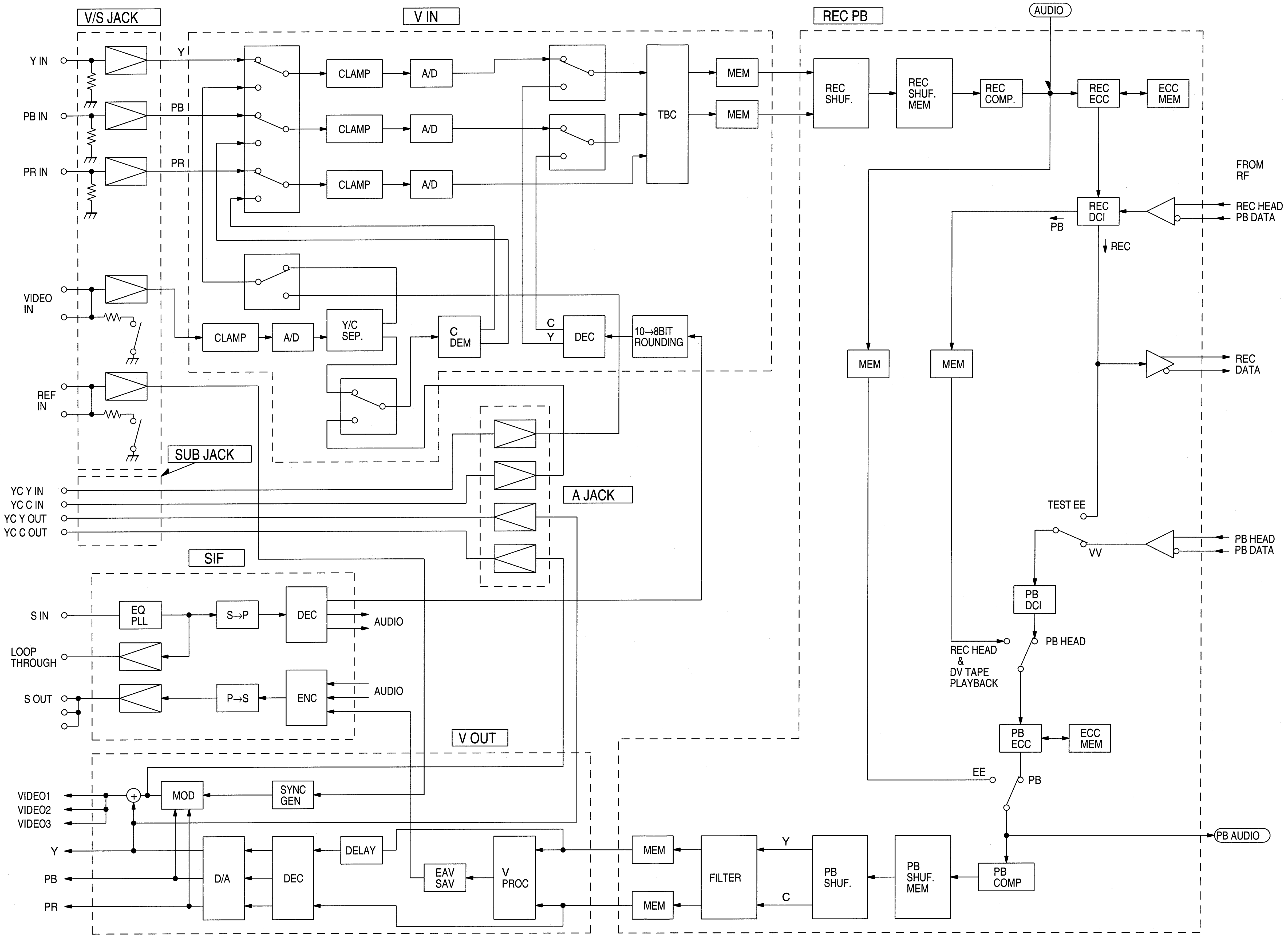
F8: ADDA CUE 2/2 BLOCK DIAGRAM.......................................BLK-12

H3 EQ BLOCK DIAGRAM BLK-13

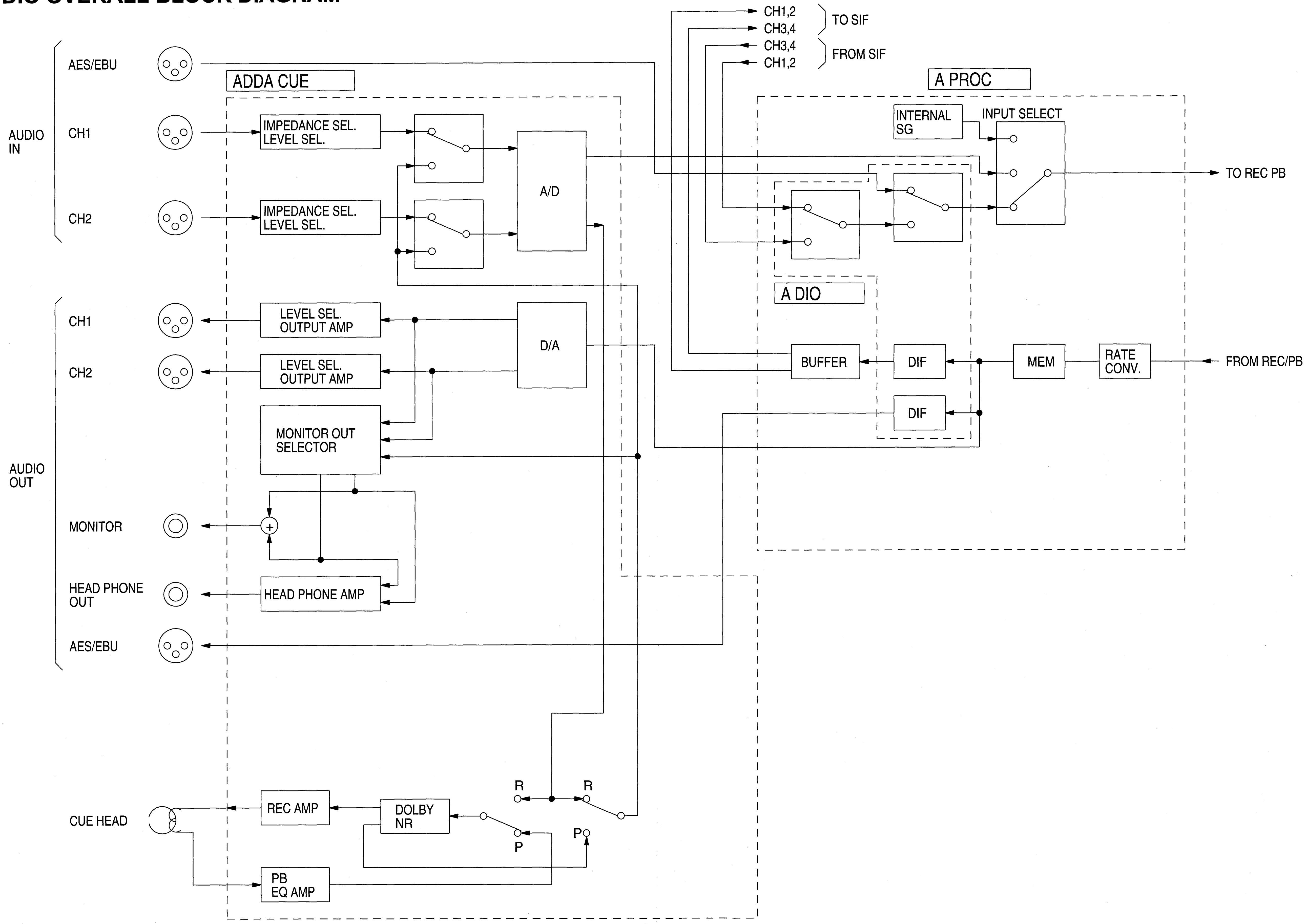
H4 RF AMP BLOCK DIAGRAM BLK-14

HEAD BUFFER BLOCK DIAGRAM BLK-15

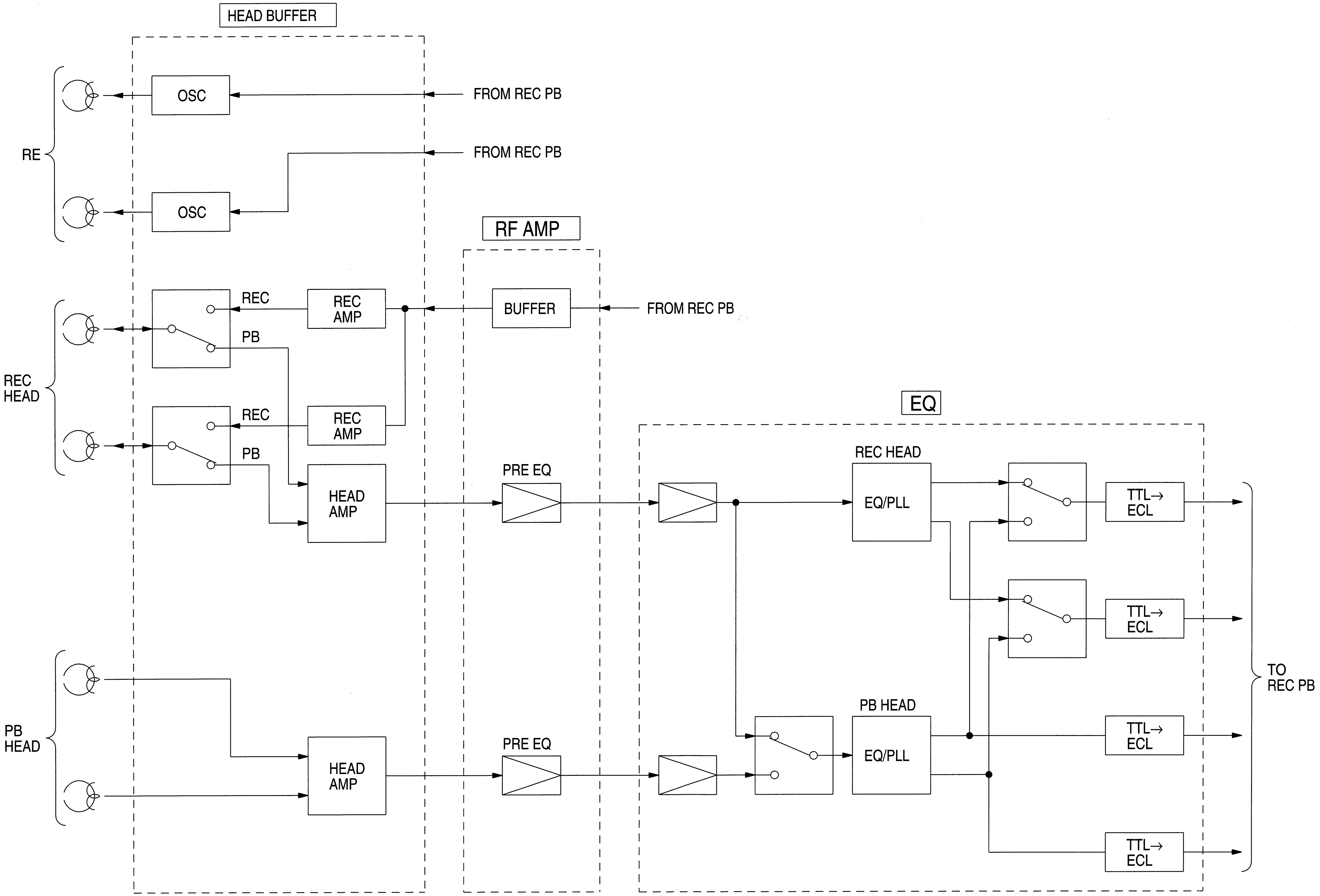
VIDEO OVERALL BLOCK DIAGRAM


V/S JACK
V IN
REC PB
AUDIO
Y IN
PB IN
PR IN
Y
PB
PR
CLAMP
A/D
CLAMP
A/D
CLAMP
A/D
TBC
MEM
MEM
REC SHUF.
REC SHUF. MEM
REC COMP.
REC ECC
ECC MEM
FROM RF
REC DCI
PB
REC
REC HEAD
PB DATA
VIDEO IN
CLAMP
A/D
Y/C SEP.
C DEM
C
Y
DEC
10→8BIT ROUNDING
MEM
MEM
REC DATA
REF IN
SUB JACK
A JACK
YC Y IN
YC C IN
YC Y OUT
YC C OUT
TEST EE
PB HEAD
PB DATA
VV
SIF
S IN
EQ PLL
S→P
DEC
AUDIO
LOOP THROUGH
S OUT
P→S
ENC
AUDIO
PB DCI
REC HEAD & DV TAPE PLAYBACK
PB HEAD
PB ECC
ECC MEM
V OUT
EE
PB
VIDEO1
VIDEO2
VIDEO3
MOD
SYNC GEN
PB AUDIO
Y
PB
PR
D/A
DEC
DELAY
EAV SAV
V PROC
MEM
MEM
FILTER
Y
C
PB SHUF.
PB SHUF. MEM
PB COMP

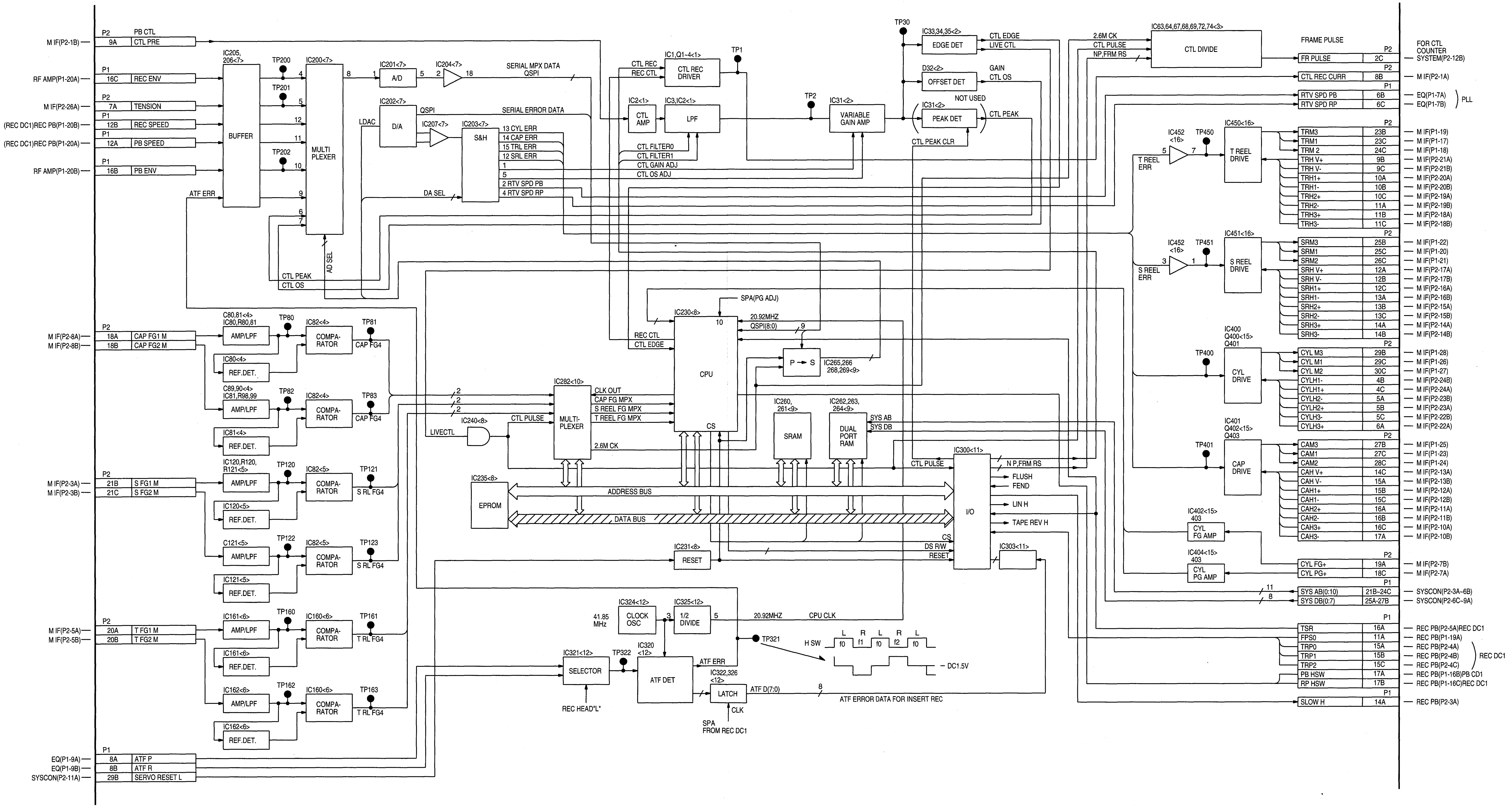
AUDIO OVERALL BLOCK DIAGRAM


CH1,2
CH3,4
TO SIF
CH3,4
CH1,2
FROM SIF
ADDA CUE
A PROC
AUDIO IN
AES/EBU
CH1
CH2
IMPEDANCE SEL. LEVEL SEL.
IMPEDANCE SEL. LEVEL SEL.
A/D
INTERNAL SG
INPUT SELECT
TO REC PB
A DIO
AUDIO OUT
CH1
CH2
LEVEL SEL. OUTPUT AMP
LEVEL SEL. OUTPUT AMP
D/A
BUFFER
DIF
MEM
RATE CONV.
FROM REC/PB
DIF
MONITOR OUT SELECTOR
MONITOR
+
HEAD PHONE OUT
HEAD PHONE AMP
AES/EBU
CUE HEAD
REC AMP
DOLBY NR
PB EQ AMP
R
R
P
P

RF OVERALL BLOCK DIAGRAM

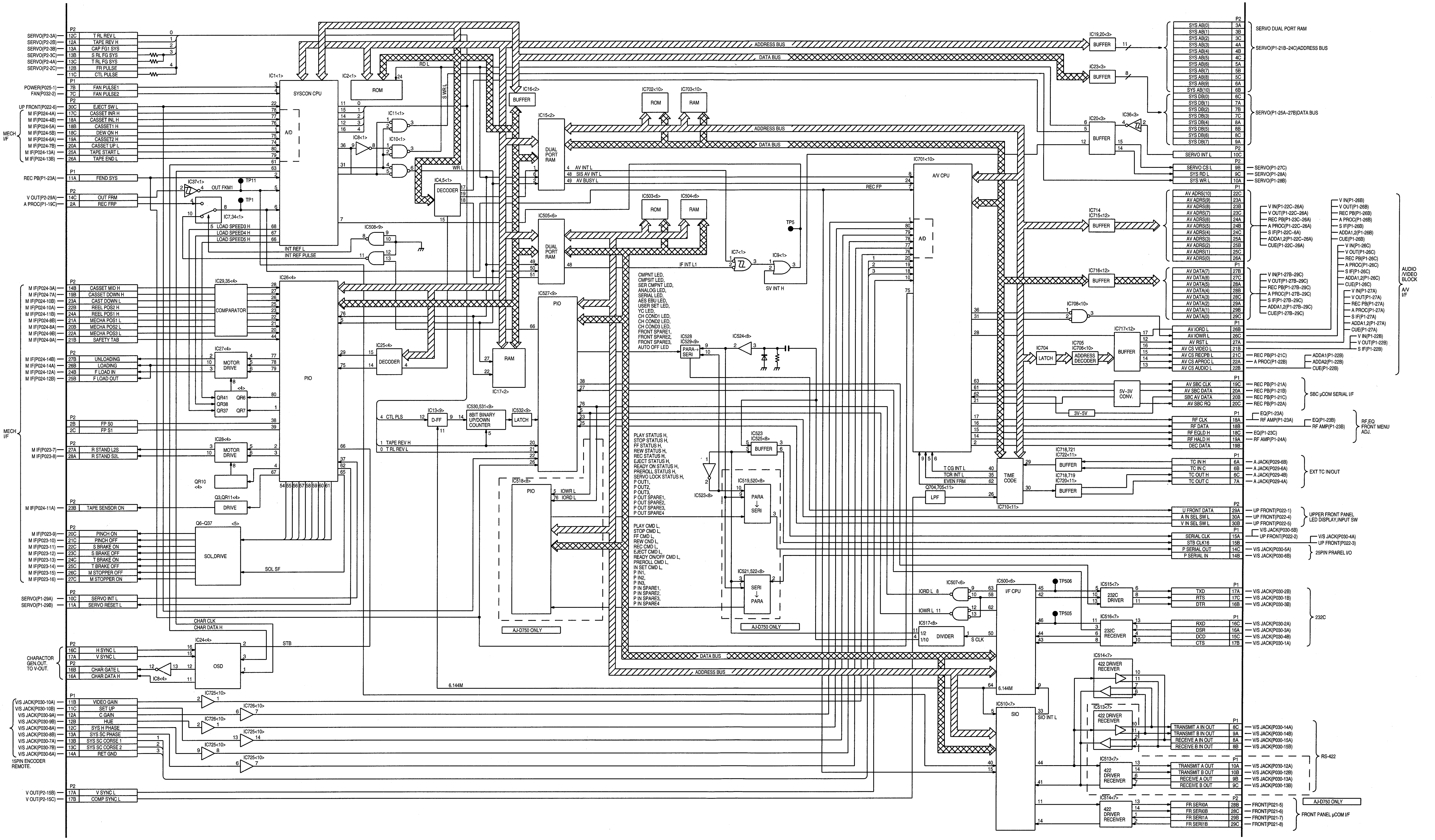

HEAD BUFFER
RE
OSC
OSC
FROM REC PB
FROM REC PB
RF AMP
REC HEAD
REC
PB
REC AMP
REC
PB
REC AMP
HEAD AMP
BUFFER
FROM REC PB
PRE EQ
EQ
REC HEAD
EQ/PLL
TTL→ ECL
TTL→ ECL
PB HEAD
HEAD AMP
PRE EQ
PB HEAD
EQ/PLL
TTL→ ECL
TTL→ ECL
TO REC PB

F1: SERVO BLOCK DIAGRAM

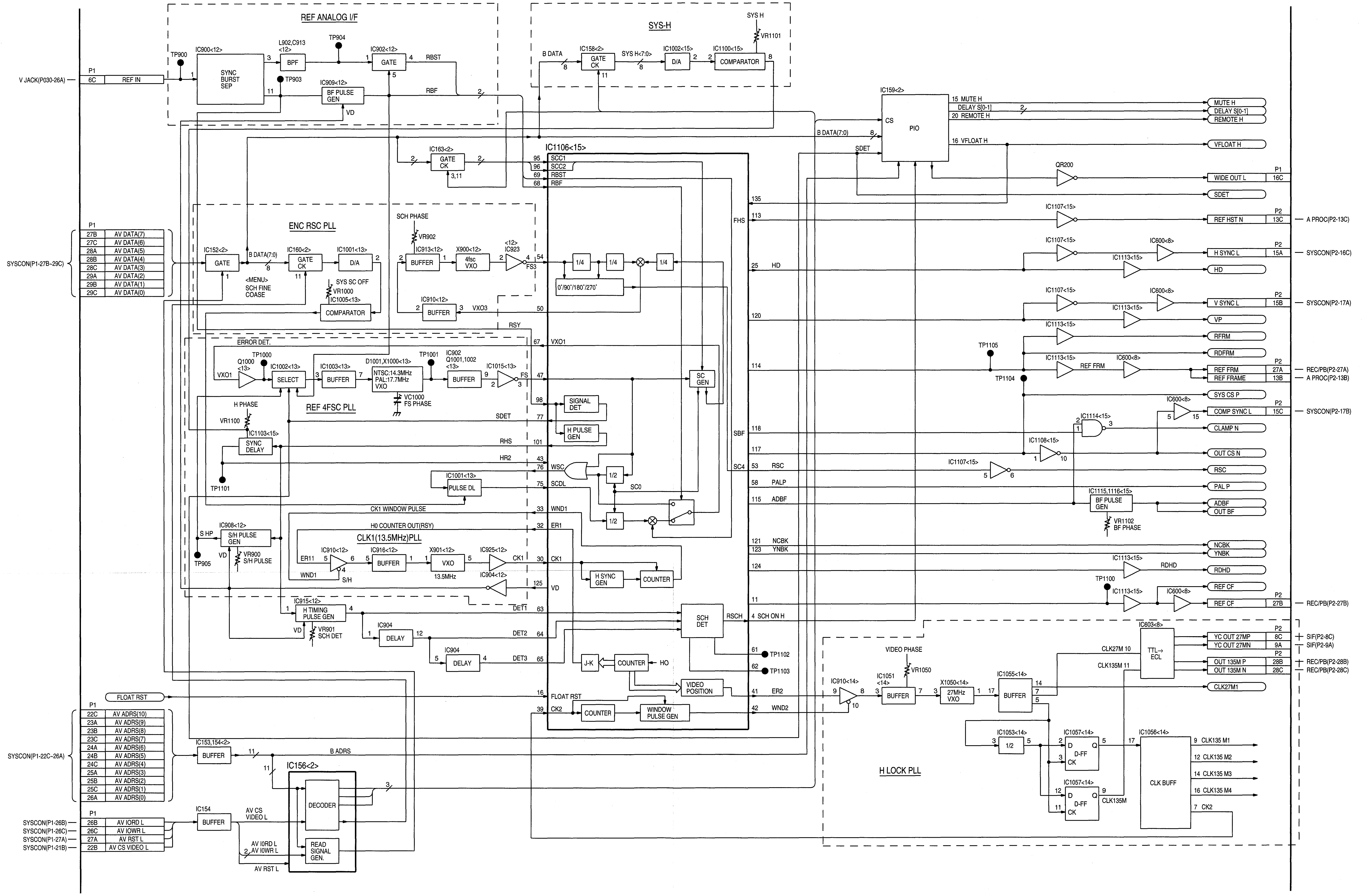


M IF(P2-1B)
RF AMP(P1-20A)
M IF(P2-26A)
(REC DC1)REC PB(P1-20B)
(REC DC1)REC PB(P1-20A)
RF AMP(P1-20B)
P2 9A PB CTL CTL PRE
P1 16C REC ENV
P2 7A TENSION
P1 12B REC SPEED
P1 12A PB SPEED
P1 16B PB ENV
IC205, 206<7>
BUFFER
ATF ERR
TP200
TP201
TP202
IC200<7>
MULTI PLEXER
AD SEL
CTL PEAK
CTL OS
IC201<7>
A/D
IC204<7>
SERIAL MPX DATA
QSPI
IC202<7>
D/A
LDAC
IC207<7>
IC203<7>
S&H
SERIAL ERROR DATA
13 CYL ERR
14 CAP ERR
15 TRL ERR
12 SRL ERR
2 RTV SPD PB
4 RTV SPD RP
DA SEL
CTL REC
CTL REC
IC1,Q1~4<1>
CTL REC DRIVER
TP1
IC2<1>
CTL AMP
IC3,IC2<1>
LPF
CTL FILTER0
CTL FILTER1
CTL GAIN ADJ
CTL OS ADJ
TP2
IC31<2>
VARIABLE GAIN AMP
TP30
IC33,34,35<2>
EDGE DET
CTL EDGE
LIVE CTL
D32<2>
OFFSET DET
GAIN
CTL OS
NOT USED
IC31<2>
PEAK DET
CTL PEAK
CTL PEAK CLR
2.6M CK
CTL PULSE
NP,FRM RS
IC63,64,67,68,69,72,74<3>
CTL DIVIDE
FRAME PULSE
FR PULSE P2 2C
CTL REC CURR P2 8B
RTV SPD PB P1 6B
RTV SPD RP 6C
FOR CTL COUNTER — SYSTEM(P2-12B)
— M IF(P2-1A)
— EQ(P1-7A)
— EQ(P1-7B)
PLL
IC452 <16>
TP450
T REEL ERR
IC450<16>
T REEL DRIVE
TRM3 23B — M IF(P1-19)
TRM1 23C — M IF(P1-17)
TRM 2 24C — M IF(P1-18)
TRH V+ 9B — M IF(P2-21A)
TRH V- 9C — M IF(P2-21B)
TRH1+ 10A — M IF(P2-20A)
TRH1- 10B — M IF(P2-20B)
TRH2+ 10C — M IF(P2-19A)
TRH2- 11A — M IF(P2-19B)
TRH3+ 11B — M IF(P2-18A)
TRH3- 11C — M IF(P2-18B)
IC452 <16>
TP451
S REEL ERR
IC451<16>
S REEL DRIVE
SRM3 25B — M IF(P1-22)
SRM1 25C — M IF(P1-20)
SRM2 26C — M IF(P1-21)
SRH V+ 12A — M IF(P2-17A)
SRH V- 12B — M IF(P2-17B)
SRH1+ 12C — M IF(P2-16A)
SRH1- 13A — M IF(P2-16B)
SRH2+ 13B — M IF(P2-15A)
SRH2- 13C — M IF(P2-15B)
SRH3+ 14A — M IF(P2-14A)
SRH3- 14B — M IF(P2-14B)
IC400 Q400<15> Q401
TP400
CYL DRIVE
CYL M3 29B — M IF(P1-28)
CYL M1 29C — M IF(P1-26)
CYL M2 30C — M IF(P1-27)
CYLH1- 4B — M IF(P2-24B)
CYLH1+ 4C — M IF(P2-24A)
CYLH2- 5A — M IF(P2-23B)
CYLH2+ 5B — M IF(P2-23A)
CYLH3- 5C — M IF(P2-22B)
CYLH3+ 6A — M IF(P2-22A)
IC401 Q402<15> Q403
TP401
CAP DRIVE
CAM3 27B — M IF(P1-25)
CAM1 27C — M IF(P1-23)
CAM2 28C — M IF(P1-24)
CAH V+ 14C — M IF(P2-13A)
CAH V- 15A — M IF(P2-13B)
CAH1+ 15B — M IF(P2-12A)
CAH1- 15C — M IF(P2-12B)
CAH2+ 16A — M IF(P2-11A)
CAH2- 16B — M IF(P2-11B)
CAH3+ 16C — M IF(P2-10A)
CAH3- 17A — M IF(P2-10B)
IC402<15> 403
CYL FG AMP
IC404<15> 403
CYL PG AMP
CYL FG+ 19A — M IF(P2-7B)
CYL PG+ 18C — M IF(P2-7A)
SYS AB(0:10) 21B~24C — SYSCON(P2-3A~6B)
SYS DB(0:7) 25A-27B — SYSCON(P2-6C~9A)
TSR 16A — REC PB(P2-5A)REC DC1
FPS0 11A — REC PB(P1-19A)
TRP0 15A — REC PB(P2-4A)
TRP1 15B — REC PB(P2-4B)
TRP2 15C — REC PB(P2-4C)
REC DC1
PB HSW 17A — REC PB(P1-16B)PB CD1
RP HSW 17B — REC PB(P1-16C)REC DC1
SLOW H 14A — REC PB(P2-3A)
M IF(P2-8A)
M IF(P2-8B)
P2 18A CAP FG1 M
18B CAP FG2 M
C80,81<4> IC80,R80,81
AMP/LPF
TP80
IC82<4>
COMPA-RATOR
TP81
CAP FG4
IC80<4>
REF.DET.
C89,90<4> IC81,R98,99
TP82
TP83
IC81<4>
IC120,R120, R121<5>
TP120
TP121
S RL FG4
M IF(P2-3A)
M IF(P2-3B)
P2 21B S FG1 M
21C S FG2 M
IC120<5>
C121<5>
TP122
TP123
IC121<5>
M IF(P2-5A)
M IF(P2-5B)
P2 20A T FG1 M
20B T FG2 M
IC161<6>
TP160
IC160<6>
TP161
T RL FG4
IC162<6>
TP162
TP163
EQ(P1-9A)
EQ(P1-9B)
SYSCON(P2-11A)
P1 8A ATF P
8B ATF R
29B SERVO RESET L
SPA(PG ADJ)
IC230<8>
20.92MHZ
QSPI(8:0)
CPU
REC CTL
CTL EDGE
P → S
IC265,266 268,269<9>
IC282<10>
MULTI-PLEXER
CLK OUT
CAP FG MPX
S REEL FG MPX
T REEL FG MPX
2.6M CK
IC240<8>
LIVECTL
CTL PULSE
IC260, 261<9>
SRAM
IC262,263, 264<9>
DUAL PORT RAM
SYS AB
SYS DB
CS
IC235<8>
EPROM
ADDRESS BUS
DATA BUS
IC300<11>
I/O
N P,FRM RS
FLUSH
FEND
LIN H
TAPE REV H
DS R/W
RESET
IC231<8>
RESET
IC303<11>
IC324<12>
41.85 MHz
CLOCK OSC
IC325<12>
1/2 DIVIDE
20.92MHZ
CPU CLK
TP321
H SW
L R L R L
f0 f1 f0 f2 f0
DC1.5V
IC321<12>
SELECTOR
TP322
IC320 <12>
ATF DET
ATF ERR
IC322,326 <12>
LATCH
ATF D(7:0)
ATF ERROR DATA FOR INSERT REC
REC HEAD"L"
SPA FROM REC DC1
CLK

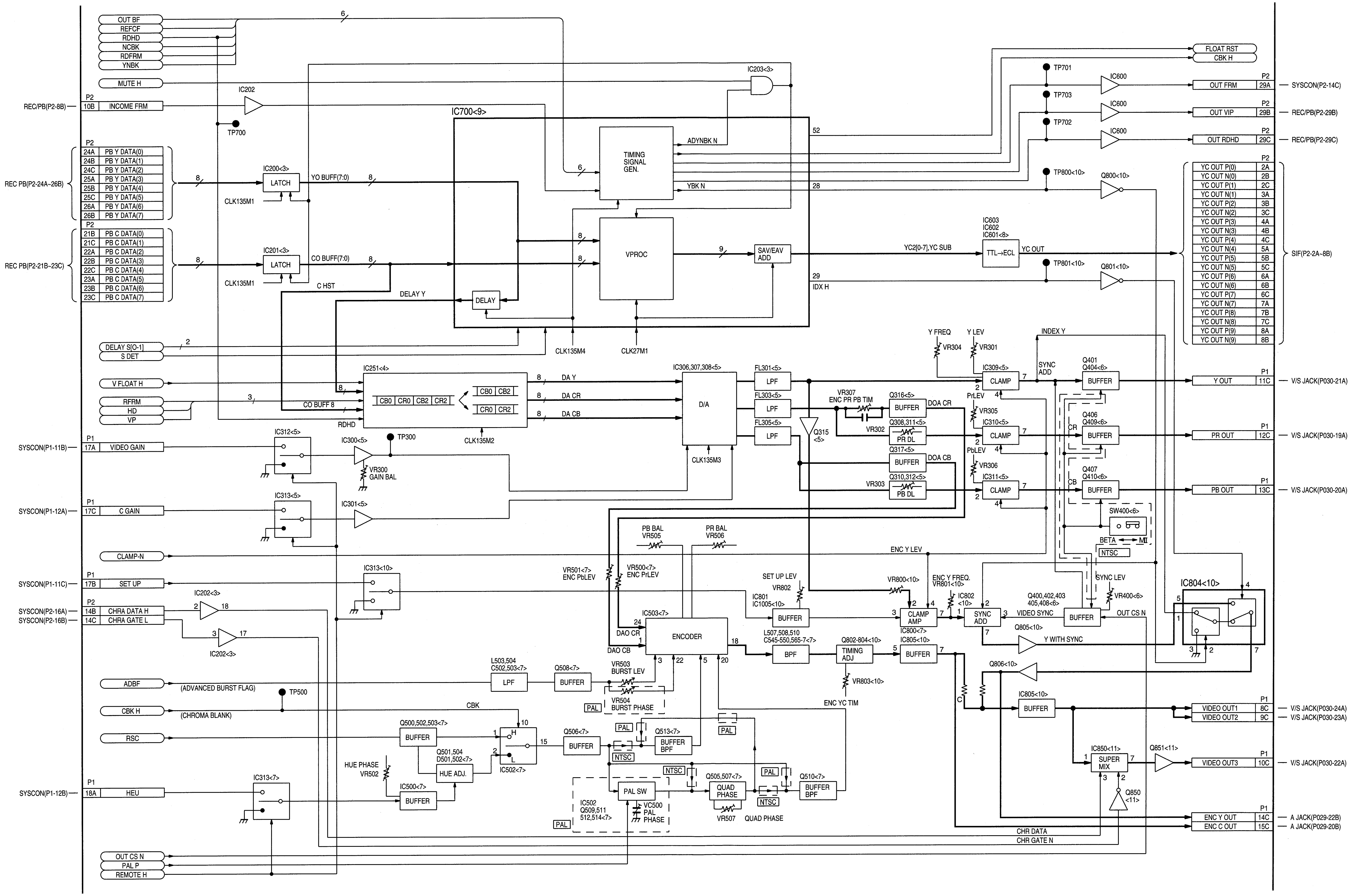
F2: SYSCON BLOCK DIAGRAM


SYSCON CPU
IC1<1>
A/D
ROM
IC2<1>
BUFFER
IC16<2>
DUAL PORT RAM
IC15<2>
DECODER
IC4,5<1>
ROM
IC702<10>
RAM
IC703<10>
ROM
IC503<6>
RAM
IC504<6>
DUAL PORT RAM
IC505<6>
PIO
IC527<8>
PIO
IC26<4>
COMPARATOR
IC29,35<4>
MOTOR DRIVE
IC27<4>
IC28<4>
DECODER
IC25<4>
RAM
IC17<2>
D-FF
IC13<9>
8BIT BINARY UP/DOWN COUNTER
IC530,531<9>
LATCH
IC532<9>
PIO
IC518<8>
AJ-D750 ONLY
DRIVE
Q3,QR11<4>
SOL.DRIVE
Q6~Q37 <5>
OSD
IC24<4>
A/V CPU
IC701<10>
A/D
BUFFER
IC19,20<3>
BUFFER
IC23<3>
BUFFER
IC20<3>
BUFFER
IC714 IC715<12>
BUFFER
IC716<12>
LATCH
IC704
ADDRESS DECODER
IC705 IC706<10>
BUFFER
IC717<12>
5V~3V CONV.
3V~5V
TIME CODE
IC710<11>
BUFFER
IC718,721 IC722<11>
BUFFER
IC718,719 IC720<11>
LPF
Q704,705<11>
PARA→SERI
IC528 IC529<9>
BUFFER
IC523 IC525<8>
PARA ↓ SERI
IC519,520<8>
SERI ↓ PARA
IC521,522<8>
I/F CPU
IC500<6>
DIVIDER
IC517<8>
SIO
IC510<7>
232C DRIVER
IC515<7>
232C RECEIVER
IC516<7>
422 DRIVER RECEIVER
IC514<7>
IC513<7>
ADDRESS BUS
DATA BUS
6.144M
SERVO DUAL PORT RAM
SERVO(P1-21B~24C)ADDRESS BUS
SERVO(P1-25A~27B)DATA BUS
MECH I/F
AUDIO /VIDEO BLOCK A/V I/F
SBC μCOM SERIAL I/F
RF,EQ FRONT MENU ADJ.
EXT TC IN/OUT
UPPER FRONT PANEL LED DISPLAY,INPUT SW
25PIN PRAREL I/O
232C
RS-422
AJ-D750 ONLY
FRONT PANEL μCOM I/F
CHARACTOR GEN.OUT. TO V-OUT.
15PIN ENCODER REMOTE.
TP1
TP11
TP5
TP505
TP506

F4: V OUT 1/2 BLOCK DIAGRAM

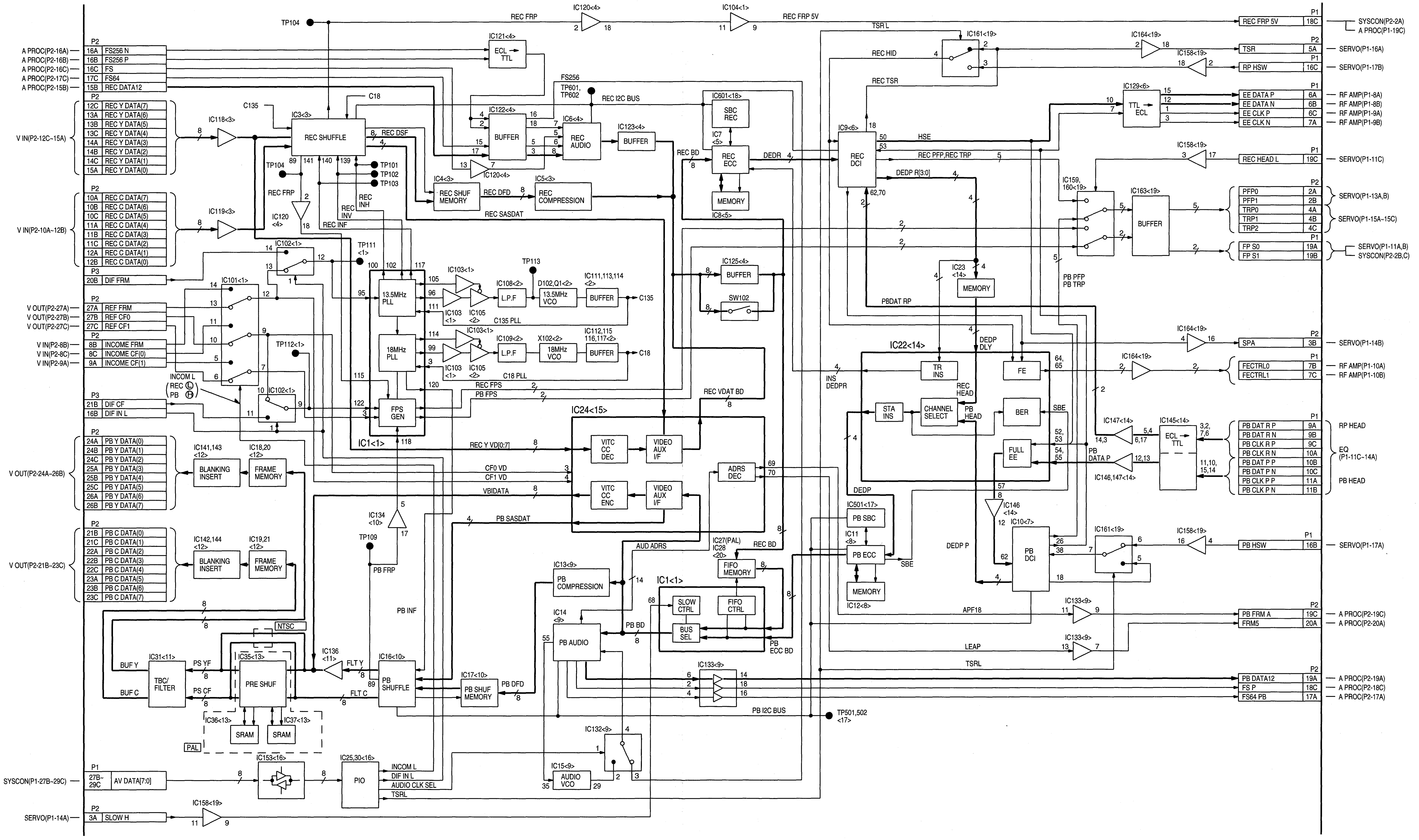

REF ANALOG I/F
TP900
TP904
TP903
IC900<12>
SYNC BURST SEP
L902,C913 <12>
BPF
IC902<12>
GATE
RBST
IC909<12>
BF PULSE GEN
VD
RBF
V JACK(P030-26A)
P1
6C
REF IN
SYS-H
SYS H
VR1101
B DATA
IC158<2>
GATE CK
SYS H<7:0>
IC1002<15>
D/A
IC1100<15>
COMPARATOR
IC159<2>
CS
PIO
15 MUTE H
DELAY S[0-1]
20 REMOTE H
16 VFLOAT H
B DATA(7:0)
SDET
MUTE H
DELAY S[0-1]
REMOTE H
VFLOAT H
IC163<2>
GATE CK
3,11
IC1106<15>
SCC1
SCC2
RBST
RBF
QR200
WIDE OUT L
SDET
16C
ENC RSC PLL
SCH PHASE
VR902
IC913<12>
BUFFER
X900<12>
4fsc VXO
<12> IC923
FS3
IC152<2>
GATE
B DATA(7:0)
IC160<2>
GATE CK
IC1001<13>
D/A
<MENU> SCH FINE COASE
SYS SC OFF
VR1000
IC1005<13>
COMPARATOR
IC910<12>
BUFFER
VXO3
RSY
SYSCON(P1-27B-29C)
27B AV DATA(7)
27C AV DATA(6)
28A AV DATA(5)
28B AV DATA(4)
28C AV DATA(3)
29A AV DATA(2)
29B AV DATA(1)
29C AV DATA(0)
1/4
1/4
1/4
0°/90°/180°/270°
FHS
135
113
25 HD
120
IC1107<15>
REF HST N
13C
A PROC(P2-13C)
IC600<8>
IC1113<15>
H SYNC L
15A
SYSCON(P2-16C)
HD
V SYNC L
15B
SYSCON(P2-17A)
VP
RFRM
RDFRM
TP1105
TP1104
REF FRM
REF FRM
27A
REC/PB(P2-27A)
REF FRAME
13B
A PROC(P2-13B)
SYS CS P
COMP SYNC L
15C
SYSCON(P2-17B)
IC1114<15>
CLAMP N
IC1108<15>
OUT CS N
RSC
PAL P
IC1115,1116<15>
BF PULSE GEN
ADBF
OUT BF
VR1102 BF PHASE
NCBK
YNBK
RDHD
RDHD
TP1100
REF CF
REF CF
27B
REC/PB(P2-27B)
ERROR DET.
TP1000
Q1000 <13>
VXO1
IC1002<13>
SELECT
IC1003<13>
BUFFER
D1001,X1000<13>
NTSC:14.3MHz PAL:17.7MHz VXO
VC1000 FS PHASE
TP1001
IC902 Q1001,1002 <13>
BUFFER
IC1015<13>
FS
REF 4FSC PLL
H PHASE
VR1100
IC1103<15>
SYNC DELAY
TP1101
SDET
RHS
HR2
IC1001<13>
PULSE DL
VXO1
SC GEN
SIGNAL DET
H PULSE GEN
WSC
SCDL
1/2
SC0
1/2
SBF
118
117
SC4 53 RSC
58 PALP
115 ADBF
121 NCBK
123 YNBK
124
11
4 SCH ON H
RSCH
CK1 WINDOW PULSE
WND1
H0 COUNTER OUT(RSY)
ER1
IC908<12>
S/H PULSE GEN
S HP
VD
VR900 S/H PULSE
TP905
CLK1(13.5MHz)PLL
IC910<12>
ER11
WND1
S/H
IC916<12>
BUFFER
X901<12>
VXO
13.5MHz
IC925<12>
CK1
IC904<12>
CK1
H SYNC GEN
COUNTER
VD
IC915<12>
H TIMING PULSE GEN
DET1
VR901 SCH DET
IC904
DELAY
DET2
IC904
DELAY
DET3
SCH DET
TP1102
TP1103
J-K
COUNTER
HO
VIDEO POSITION
FLOAT RST
FLOAT RST
CK2
COUNTER
WINDOW PULSE GEN
41 ER2
42 WND2
IC603<8>
TTL→ECL
CLK27M 10
CLK135M 11
YC OUT 27MP
YC OUT 27MN
OUT 135M P
OUT 135M N
CLK27M1
8C
9A
28B
28C
SIF(P2-8C)
SIF(P2-9A)
REC/PB(P2-28B)
REC/PB(P2-28C)
VIDEO PHASE
VR1050
IC1051 <14>
IC910<14>
BUFFER
X1050<14>
27MHz VXO
IC1055<14>
BUFFER
IC1053<14>
1/2
IC1057<14>
D-FF
IC1057<14>
D-FF
CLK135M
IC1056<14>
CLK BUFF
9 CLK135 M1
12 CLK135 M2
14 CLK135 M3
16 CLK135 M4
7 CK2
H LOCK PLL
SYSCON(P1-22C-26A)
22C AV ADRS(10)
23A AV ADRS(9)
23B AV ADRS(8)
23C AV ADRS(7)
24A AV ADRS(6)
24B AV ADRS(5)
24C AV ADRS(4)
25A AV ADRS(3)
25B AV ADRS(2)
25C AV ADRS(1)
26A AV ADRS(0)
IC153,154<2>
BUFFER
B ADRS
IC156<2>
DECODER
READ SIGNAL GEN.
SYSCON(P1-26B)
SYSCON(P1-26C)
SYSCON(P1-27A)
SYSCON(P1-21B)
26B AV IORD L
26C AV IOWR L
27A AV RST L
22B AV CS VIDEO L
IC154
BUFFER
AV CS VIDEO L
AV IORD L
AV IOWR L
AV RST L

F4: V OUT 2/2 BLOCK DIAGRAM



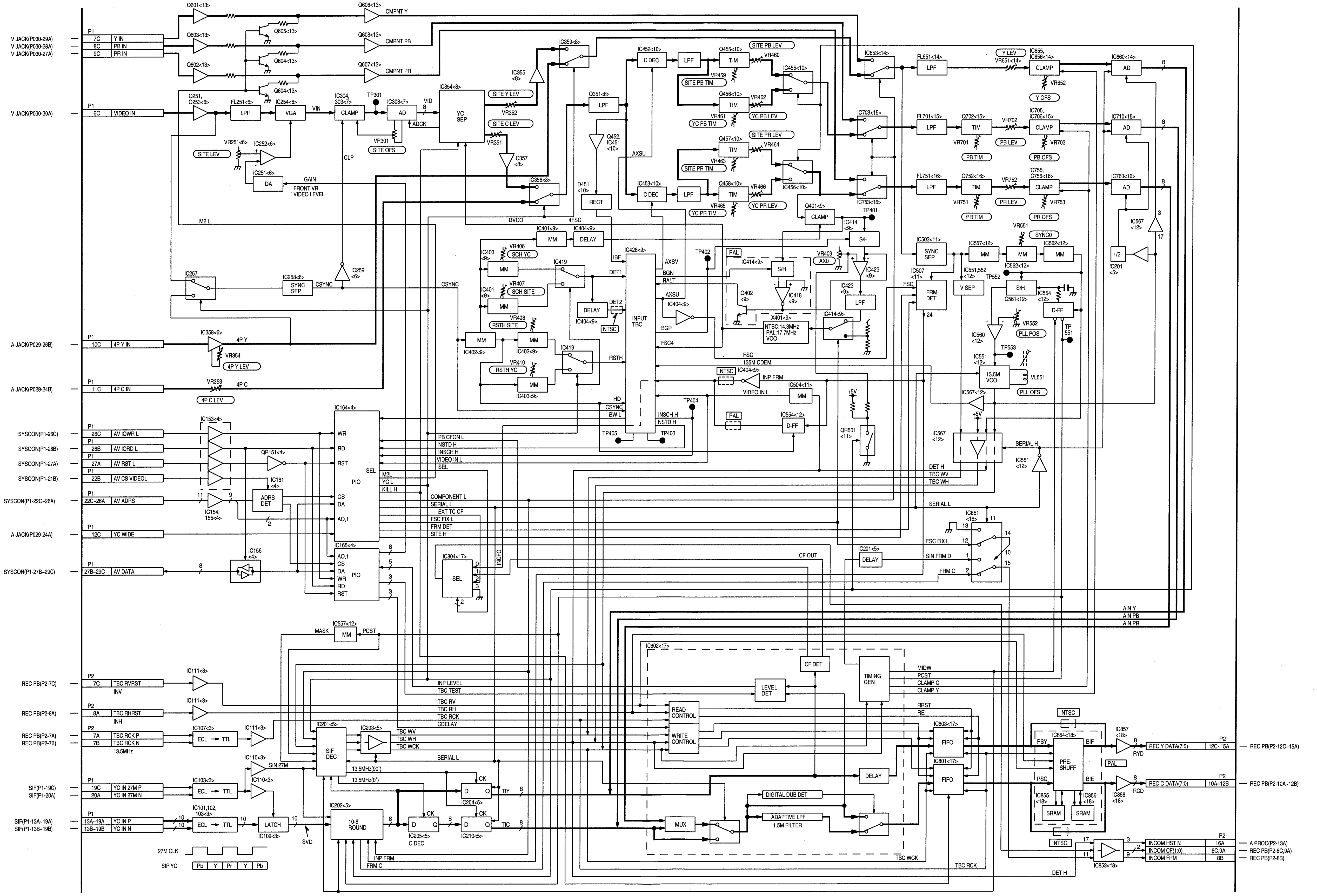
OUT BF
REFCF
RDHD
NCBK
RDFRM
YNBK
MUTE H
REC/PB(P2-8B)
P2
10B
INCOME FRM
IC202
TP700
IC203<3>
IC700<9>
TIMING SIGNAL GEN.
ADYNBK N
YBK N
52
28
29
IDX H
REC PB(P2-24A~26B)
24A PB Y DATA(0)
24B PB Y DATA(1)
24C PB Y DATA(2)
25A PB Y DATA(3)
25B PB Y DATA(4)
25C PB Y DATA(5)
26A PB Y DATA(6)
26B PB Y DATA(7)
IC200<3>
LATCH
YO BUFF(7:0)
CLK135M1
REC PB(P2-21B~23C)
21B PB C DATA(0)
21C PB C DATA(1)
22A PB C DATA(2)
22B PB C DATA(3)
22C PB C DATA(4)
23A PB C DATA(5)
23B PB C DATA(6)
23C PB C DATA(7)
IC201<3>
CO BUFF(7:0)
C HST
DELAY Y
DELAY
VPROC
SAV/EAV ADD
CLK135M4
CLK27M1
DELAY S[O-1]
S DET
TP701
TP703
TP702
IC600
FLOAT RST
CBK H
OUT FRM 29A
SYSCON(P2-14C)
OUT VIP 29B
REC/PB(P2-29B)
OUT RDHD 29C
REC/PB(P2-29C)
TP800<10>
Q800<10>
IC603
IC602
IC601<8>
TTL→ECL
YC OUT
YC2[0-7],YC SUB
TP801<10>
Q801<10>
YC OUT P(0) 2A
YC OUT N(0) 2B
YC OUT P(1) 2C
YC OUT N(1) 3A
YC OUT P(2) 3B
YC OUT N(2) 3C
YC OUT P(3) 4A
YC OUT N(3) 4B
YC OUT P(4) 4C
YC OUT N(4) 5A
YC OUT P(5) 5B
YC OUT N(5) 5C
YC OUT P(6) 6A
YC OUT N(6) 6B
YC OUT P(7) 6C
YC OUT N(7) 7A
YC OUT P(8) 7B
YC OUT N(8) 7C
YC OUT P(9) 8A
YC OUT N(9) 8B
SIF(P2-2A~8B)
V FLOAT H
RFRM
HD
VP
IC251<4>
CB0 CR0 CB2 CR2
CB0 CB2
CR0 CR2
CO BUFF 8
RDHD
CLK135M2
DA Y
DA CR
DA CB
IC306,307,308<5>
D/A
CLK135M3
FL301<5>
FL303<5>
FL305<5>
LPF
Q315 <5>
VR307 ENC PR PB TIM
Q316<5>
BUFFER
DOA CR
VR302
Q308,311<5>
PR DL
Q317<5>
DOA CB
VR303
Q310,312<5>
PB DL
Y FREQ
Y LEV
VR304
VR301
INDEX Y
IC309<5>
CLAMP
SYNC ADD
PrLEV
VR305
IC310<5>
PbLEV
VR306
IC311<5>
Q401 Q404<6>
Q406 Q409<6>
Q407 Q410<6>
Y OUT 11C
V/S JACK(P030-21A)
PR OUT 12C
V/S JACK(P030-19A)
PB OUT 13C
V/S JACK(P030-20A)
SW400<6>
BETA
MII
NTSC
SYSCON(P1-11B)
P1
17A VIDEO GAIN
IC312<5>
IC300<5>
TP300
VR300 GAIN BAL
SYSCON(P1-12A)
17C C GAIN
IC313<5>
IC301<5>
CLAMP-N
PB BAL VR505
PR BAL VR506
ENC Y LEV
SYSCON(P1-11C)
17B SET UP
IC313<10>
VR501<7> ENC PbLEV
VR500<7> ENC PrLEV
SET UP LEV
VR802
IC801 IC1005<10>
VR800<10>
ENC Y FREQ. VR801<10>
IC802 <10>
SYNC LEV
VR400<6>
IC804<10>
SYSCON(P2-16A)
SYSCON(P2-16B)
14B CHRA DATA H
14C CHRA GATE L
IC202<3>
IC503<7>
ENCODER
DAO CR
DAO CB
CLAMP AMP
IC800<7>
SYNC ADD
VIDEO SYNC
Q400,402,403 405,408<6>
OUT CS N
Q805<10>
Y WITH SYNC
L507,508,510 C545-550,565-7<7>
BPF
Q802-804<10>
TIMING ADJ
IC805<10>
VR803<10>
ENC YC TIM
Q806<10>
ADBF
(ADVANCED BURST FLAG)
TP500
L503,504 C502,503<7>
Q508<7>
VR503 BURST LEV
VR504 BURST PHASE
PAL
CBK H
(CHROMA BLANK)
CBK
RSC
Q500,502,503<7>
Q501,504 D501,502<7>
HUE ADJ.
HUE PHASE VR502
IC500<7>
IC502<7>
Q506<7>
Q513<7>
BUFFER BPF
Q505,507<7>
QUAD PHASE
VR507
Q510<7>
PAL SW
IC502 Q509,511 512,514<7>
VC500 PAL PHASE
SYSCON(P1-12B)
18A HEU
IC313<7>
VIDEO OUT1 8C
VIDEO OUT2 9C
V/S JACK(P030-24A)
V/S JACK(P030-23A)
IC850<11>
SUPER MIX
Q851<11>
VIDEO OUT3 10C
V/S JACK(P030-22A)
Q850 <11>
ENC Y OUT 14C
ENC C OUT 15C
A JACK(P029-22B)
A JACK(P029-20B)
CHR DATA
CHR GATE N
OUT CS N
PAL P
REMOTE H

F5: REC/PB BLOCK DIAGRAM

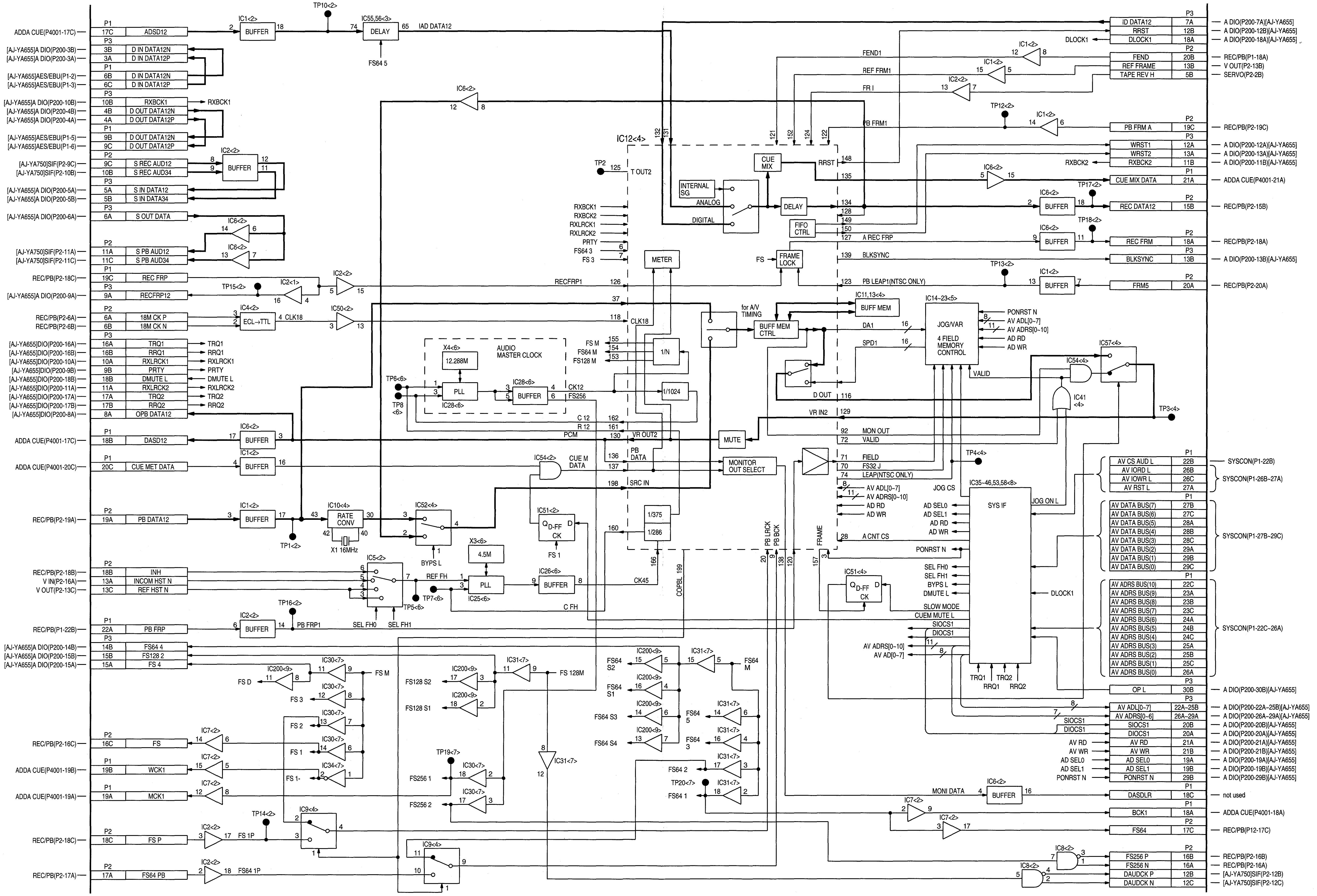


P2
16A FS256 N
16B FS256 P
16C FS
17C FS64
15B REC DATA12
A PROC(P2-16A)
A PROC(P2-16B)
A PROC(P2-16C)
A PROC(P2-17C)
A PROC(P2-15B)
12C REC Y DATA(7)
13A REC Y DATA(6)
13B REC Y DATA(5)
13C REC Y DATA(4)
14A REC Y DATA(3)
14B REC Y DATA(2)
14C REC Y DATA(1)
15A REC Y DATA(0)
V IN(P2-12C~15A)
10A REC C DATA(7)
10B REC C DATA(6)
10C REC C DATA(5)
11A REC C DATA(4)
11B REC C DATA(3)
11C REC C DATA(2)
12A REC C DATA(1)
12B REC C DATA(0)
V IN(P2-10A~12B)
P3
20B DIF FRM
27A REF FRM
27B REF CF0
27C REF CF1
V OUT(P2-27A)
V OUT(P2-27B)
V OUT(P2-27C)
8B INCOME FRM
8C INCOME CF(0)
9A INCOME CF(1)
V IN(P2-8B)
V IN(P2-8C)
V IN(P2-9A)
INCOM L
REC Ⓛ
PB Ⓗ
21B DIF CF
16B DIF IN L
24A PB Y DATA(0)
24B PB Y DATA(1)
24C PB Y DATA(2)
25A PB Y DATA(3)
25B PB Y DATA(4)
25C PB Y DATA(5)
26A PB Y DATA(6)
26B PB Y DATA(7)
V OUT(P2-24A~26B)
21B PB C DATA(0)
21C PB C DATA(1)
22A PB C DATA(2)
22B PB C DATA(3)
22C PB C DATA(4)
23A PB C DATA(5)
23B PB C DATA(6)
23C PB C DATA(7)
V OUT(P2-21B~23C)
P1
27B-29C AV DATA[7:0]
SYSCON(P1-27B~29C)
3A SLOW H
SERVO(P1-14A)
TP104
REC FRP
IC120<4>
IC104<1>
REC FRP 5V
IC121<4>
ECL → TTL
C135
C18
IC118<3>
IC3<3>
REC SHUFFLE
REC DSF
TP101
TP102
TP103
IC119<3>
IC120 <4>
REC INF
REC INV
REC INH
IC102<1>
IC101<1>
TP111 <1>
13.5MHz PLL
18MHz PLL
IC103<1>
IC105 <2>
IC108<2>
L.P.F
D102,Q1<2>
13.5MHz VCO
IC111,113,114 <2>
BUFFER
C135 PLL
IC109<2>
X102<2>
18MHz VCO
IC112,115 116,117<2>
C18 PLL
TP113
TP112<1>
FPS GEN
IC1<1>
REC FPS
PB FPS
FS256
TP601, TP602
REC I2C BUS
IC122<4>
IC6<4>
REC AUDIO
IC123<4>
IC4<3>
REC SHUF MEMORY
REC DFD
IC5<3>
REC COMPRESSION
REC SASDAT
IC601<18>
SBC REC
IC7 <5>
REC ECC
REC BD
DEDR
MEMORY
IC8<5>
IC125<4>
SW102
IC9<6>
REC DCI
HSE
REC PFP, REC TRP
DEDP R[3:0]
REC HID
REC TSR
TSR L
IC161<19>
IC164<19>
IC158<19>
IC129<6>
TTL → ECL
IC159, 160<19>
IC163<19>
PB PFP
PB TRP
PBDAT RP
IC23 <14>
DEDP DLY
IC22<14>
TR INS
REC HEAD
FE
STA INS
CHANNEL SELECT
PB HEAD
BER
SBE
FULL EE
PB DATA P
IC147<14>
IC145<14>
ECL → TTL
IC146,147<14>
INS DEDPR
REC VDAT BD
IC24<15>
VITC CC DEC
VIDEO AUX I/F
VITC CC ENC
ADRS DEC
REC Y VD[0:7]
CF0 VD
CF1 VD
VBIDATA
PB SASDAT
IC141,143 <12>
BLANKING INSERT
IC18,20 <12>
FRAME MEMORY
IC142,144 <12>
IC19,21 <12>
IC134 <10>
TP109
PB FRP
PB INF
DEDP
IC501<17>
PB SBC
IC11 <8>
PB ECC
IC12<8>
IC146 <14>
IC10<7>
PB DCI
DEDP P
AUD ADRS
IC27(PAL) IC28 <20>
FIFO MEMORY
REC BD
IC13<9>
PB COMPRESSION
IC1<1>
SLOW CTRL
FIFO CTRL
BUS SEL
PB ECC BD
IC14 <9>
PB AUDIO
PB BD
APF18
LEAP
TSRL
IC133<9>
NTSC
IC31<11>
TBC/ FILTER
BUF Y
BUF C
PS YF
PS CF
IC35<13>
PRE SHUF
IC36<13>
IC37<13>
SRAM
PAL
IC136 <11>
FLT Y
FLT C
IC16<10>
PB SHUFFLE
IC17<10>
PB SHUF MEMORY
PB DFD
PB I2C BUS
TP501,502 <17>
IC132<9>
IC15<9>
AUDIO VCO
IC153<16>
IC25,30<16>
PIO
INCOM L
DIF IN L
AUDIO CLK SEL
TSRL
IC158<19>
P1
REC FRP 5V 18C
SYSCON(P2-2A)
A PROC(P1-19C)
TSR 5A
SERVO(P1-16A)
RP HSW 16C
SERVO(P1-17B)
EE DATA P 6A
EE DATA N 6B
EE CLK P 6C
EE CLK N 7A
RF AMP(P1-8A)
RF AMP(P1-8B)
RF AMP(P1-9A)
RF AMP(P1-9B)
REC HEAD L 19C
SERVO(P1-11C)
PFP0 2A
PFP1 2B
TRP0 4A
TRP1 4B
TRP2 4C
SERVO(P1-13A,B)
SERVO(P1-15A~15C)
FP S0 19A
FP S1 19B
SERVO(P1-11A,B)
SYSCON(P2-2B,C)
SPA 3B
SERVO(P1-14B)
FECTRL0 7B
FECTRL1 7C
RF AMP(P1-10A)
RF AMP(P1-10B)
PB DAT R P 9A
PB DAT R N 9B
PB CLK R P 9C
PB CLK R N 10A
PB DAT P P 10B
PB DAT P N 10C
PB CLK P P 11A
PB CLK P N 11B
RP HEAD
EQ (P1-11C~14A)
PB HEAD
PB HSW 16B
SERVO(P1-17A)
PB FRM A 19C
FRM5 20A
A PROC(P2-19C)
A PROC(P2-20A)
PB DATA12 19A
FS P 18C
FS64 PB 17A
A PROC(P2-19A)
A PROC(P2-18C)
A PROC(P2-17A)

F6: V IN BLOCK DIAGRAM

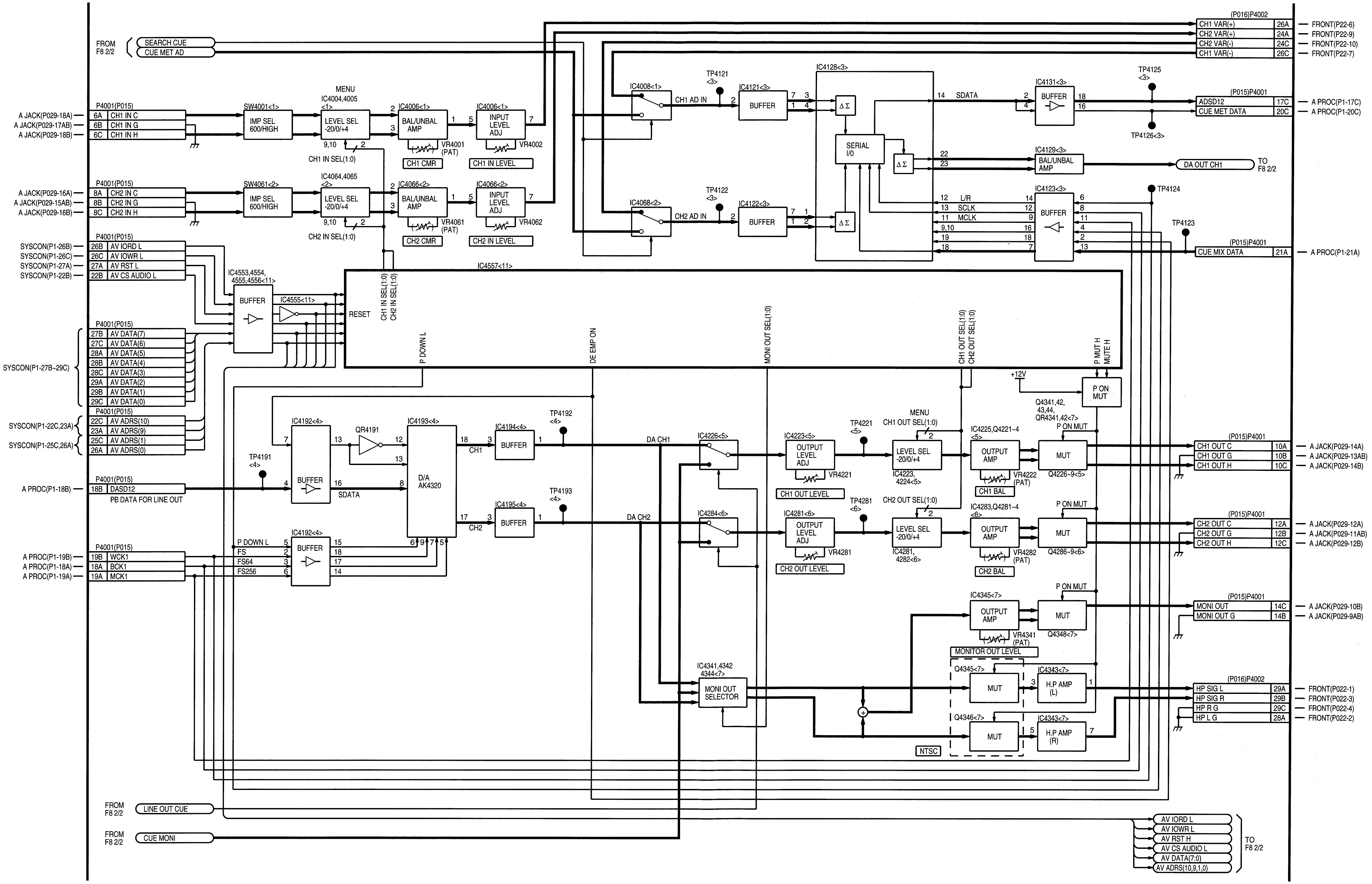

V JACK(P030-29A)
V JACK(P030-28A)
V JACK(P030-27A)
P1
7C
8C
9C
Y IN
PB IN
PR IN
V JACK(P030-30A)
6C
VIDEO IN
A JACK(P029-26B)
10C
4P Y IN
A JACK(P029-24B)
11C
4P C IN
SYSCON(P1-26C)
26C
AV IOWR L
SYSCON(P1-26B)
26B
AV IORD L
SYSCON(P1-27A)
27A
AV RST L
SYSCON(P1-21B)
22B
AV CS VIDEOL
SYSCON(P1-22C~26A)
22C-26A
AV ADRS
A JACK(P029-24A)
12C
YC WIDE
SYSCON(P1-27B~29C)
27B-29C
AV DATA
REC PB(P2-7C)
P2
7C
TBC RVRST
INV
REC PB(P2-8A)
8A
TBC RHRST
INH
REC PB(P2-7A)
REC PB(P2-7B)
7A
7B
TBC RCK P
TBC RCK N
13.5MHz
SIF(P1-19C)
SIF(P1-20A)
19C
20A
YC IN 27M P
YC IN 27M N
SIF(P1-13A~19A)
SIF(P1-13B~19B)
13A-19A
13B-19B
YC IN P
YC IN N
27M CLK
SIF YC
Pb
Y
Pr
Y
Pb
Q601<13>
Q603<13>
Q602<13>
Q605<13>
Q604<13>
Q606<13>
CMPNT Y
Q608<13>
CMPNT PB
Q607<13>
CMPNT PR
Q251,
Q253<6>
FL251<6>
LPF
IC254<6>
VGA
VIN
IC304,
303<7>
CLAMP
TP301
IC308<7>
AD
VID
8
ADCK
VR301
SITE OFS
CLP
IC354<8>
YC SEP
SITE Y LEV
VR352
SITE C LEV
VR351
VR251<6>
IC252<6>
SITE LEV
IC251<6>
DA
GAIN
FRONT VR
VIDEO LEVEL
M2 L
IC355
<8>
IC359<8>
IC357
<8>
IC356<8>
BVCO
4FSC
IC257
IC258<6>
SYNC SEP
CSYNC
IC259
<6>
IC358<6>
4P Y
VR354
4P Y LEV
VR353
4P C
4P C LEV
IC153<4>
QR151<4>
IC161
<4>
ADRS DET
IC154,
155<4>
11
9
2
IC156
<4>
8
IC164<4>
WR
RD
RST
CS
DA
AO,1
PIO
SEL
M2L
YC L
KILL H
IC165<4>
AO,1
CS
DA
WR
RD
RST
PIO
3
PB CFON L
NSTD H
INSCH H
VIDEO IN L
SEL
COMPONENT L
SERIAL L
EXT TC CF
FSC FIX L
FRM DET
SITE H
IC804<17>
SEL
INFO
IC557<12>
MASK
MM
PCST
Q351<8>
LPF
Q452,
IC451
<10>
D451
<10>
RECT
AXSU
IC452<10>
C DEC
LPF
Q455<10>
TIM
SITE PB LEV
VR460
VR459
SITE PB TIM
Q456<10>
VR462
YC PB LEV
VR461
YC PB TIM
IC455<10>
SITE PR LEV
Q457<10>
VR464
VR463
SITE PR TIM
IC456<10>
IC453<10>
Q458<10>
VR466
YC PR LEV
VR465
YC PR TIM
IC401<9>
MM
IC404<9>
DELAY
IC403
<9>
VR406
SCH YC
IC419
VR407
SCH SITE
IC401
<9>
DET1
DELAY
DET2
NTSC
IC404<9>
VR408
RSTH SITE
IC402<9>
VR410
RSTH YC
IC403<9>
IC428<9>
IBF
INPUT TBC
AXSV
BGN
RALT
AXSU
BGP
FSC4
RSTH
HD
CSYNC
BW L
INSCH H
NSTD H
TP405
TP403
TP404
TP402
PAL
IC414<9>
S/H
IC418
<9>
Q402
<9>
X401<9>
NTSC:14.3MHz
PAL:17.7MHz
VCO
VR409
AX0
IC423
<9>
IC423
<9>
LPF
IC414<9>
Q401<9>
CLAMP
IC414
<9>
TP401
S/H
FSC
135M CDEM
NTSC
IC404<9>
INP FRM
VIDEO IN L
IC504<11>
MM
PAL
IC554<12>
D-FF
+5V
QR501
<11>
IC653<14>
FL651<14>
LPF
Y LEV
VR651<14>
IC655,
IC656<14>
CLAMP
VR652
Y OFS
IC660<14>
AD
8
IC703<15>
FL701<15>
LPF
Q702<15>
TIM
VR702
IC705,
IC706<15>
CLAMP
IC710<15>
AD
VR701
PB TIM
PB LEV
VR703
PB OFS
IC753<16>
FL751<16>
Q752<16>
VR752
IC755,
IC756<16>
IC760<16>
VR751
PR TIM
PR LEV
VR753
PR OFS
VR551
SYNC0
IC503<11>
SYNC SEP
IC557<12>
MM
IC562<12>
IC567
<12>
3
17
1/2
IC201
<5>
IC507
<11>
FRM DET
24
IC551,552
<12>
V SEP
TP552
IC562<12>
S/H
IC554
<12>
IC561<12>
D-FF
TP
551
VR552
PLL POS
IC560
<12>
TP553
IC551
<12>
13.5M VCO
VL551
PLL OFS
IC567<12>
+5V
IC567
<12>
SERIAL H
IC551
<12>
DET H
TBC WV
TBC WH
SERIAL L
IC851
<18>
13
11
14
12
10
1
15
2
FSC FIX L
SIN FRM D
FRM O
CF OUT
IC201<5>
DELAY
AIN Y
AIN PB
AIN PR
IC802<17>
CF DET
TIMING GEN
MIDW
PCST
CLAMP C
CLAMP Y
RRST
RE
LEVEL DET
INP LEVEL
TBC TEST
TBC RV
TBC RH
TBC RCK
CDELAY
READ CONTROL
WRITE CONTROL
IC111<3>
IC107<3>
ECL
TTL
IC111<3>
IC201<5>
SIF DEC
IC203<5>
TBC WV
TBC WH
TBC WCK
SERIAL L
IC110<3>
SIN 27M
13.5MHz(90°)
13.5MHz(0°)
IC103<3>
IC110<3>
IC101,102,
103<3>
10
LATCH
IC109<3>
SVD
IC202<5>
10-8
ROUND
IC205<5>
C DEC
IC210<5>
IC204<5>
D
Q
CK
TIY
TIC
INP FRM
FRM O
DELAY
DIGITAL DUB DET
ADAPTIVE LPF
1.5M FILTER
MUX
TBC WCK
TBC RCK
IC803<17>
FIFO
IC801<17>
FIFO
NTSC
IC854<18>
PSY
PSC
PRE-SHUFF
BIF
BIE
IC855
<18>
SRAM
IC856
<18>
SRAM
PAL
IC857
<18>
RYD
IC858
<18>
RCD
REC Y DATA(7:0)
REC C DATA(7:0)
12C~15A
10A~12B
REC PB(P2-12C~15A)
REC PB(P2-10A~12B)
NTSC
17
11
IC853<18>
INCOM HST N
INCOM CF(1:0)
INCOM FRM
16A
8C,9A
8B
A PROC(P2-13A)
REC PB(P2-8C,9A)
REC PB(P2-8B)
DET H

F7: A PROC BLOCK DIAGRAM

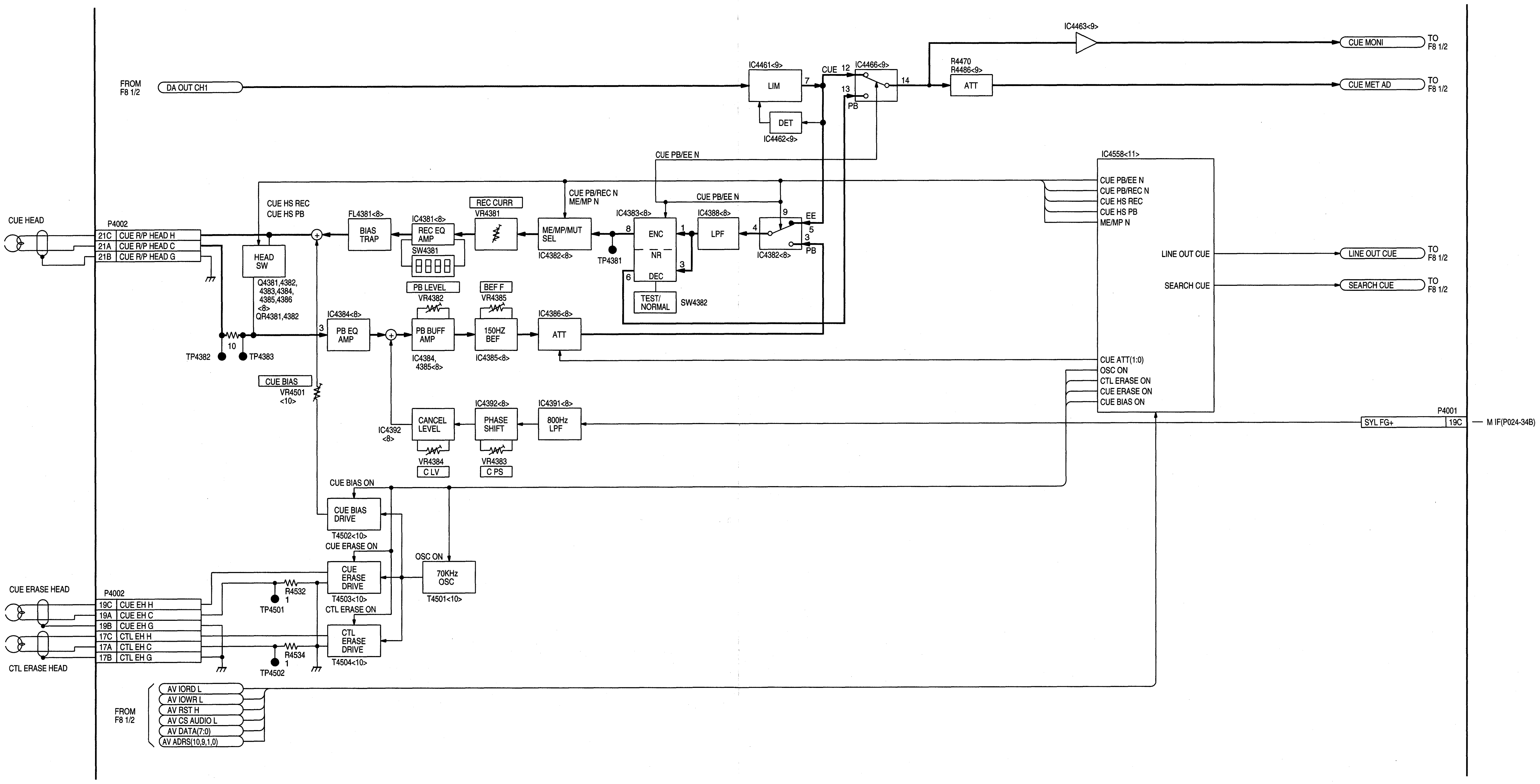


ADDA CUE(P4001-17C)
P1
17C
ADSD12
IC1<2>
BUFFER
TP10<2>
IC55,56<3>
DELAY
IAD DATA12
FS64 5
[AJ-YA655]A DIO(P200-3B)
[AJ-YA655]A DIO(P200-3A)
D IN DATA12N
D IN DATA12P
[AJ-YA655]AES/EBU(P1-2)
[AJ-YA655]AES/EBU(P1-3)
[AJ-YA655]A DIO(P200-10B)
RXBCK1
[AJ-YA655]A DIO(P200-4B)
[AJ-YA655]A DIO(P200-4A)
D OUT DATA12N
D OUT DATA12P
[AJ-YA655]AES/EBU(P1-5)
[AJ-YA655]AES/EBU(P1-6)
[AJ-YA750]SIF(P2-9C)
[AJ-YA750]SIF(P2-10B)
S REC AUD12
S REC AUD34
IC2<2>
[AJ-YA655]A DIO(P200-5A)
[AJ-YA655]A DIO(P200-5B)
S IN DATA12
S IN DATA34
[AJ-YA655]A DIO(P200-6A)
S OUT DATA
IC6<2>
[AJ-YA750]SIF(P2-11A)
[AJ-YA750]SIF(P2-11C)
S PB AUD12
S PB AUD34
REC/PB(P2-18C)
REC FRP
TP15<2>
IC2<1>
[AJ-YA655]A DIO(P200-9A)
RECFRP12
REC/PB(P2-6A)
REC/PB(P2-6B)
18M CK P
18M CK N
IC4<2>
ECL→TTL
CLK18
IC50<2>
[AJ-YA655]DIO(P200-16A)
[AJ-YA655]DIO(P200-16B)
[AJ-YA655]DIO(P200-10A)
[AJ-YA655]DIO(P200-9B)
[AJ-YA655]DIO(P200-18B)
[AJ-YA655]DIO(P200-11A)
[AJ-YA655]DIO(P200-17A)
[AJ-YA655]DIO(P200-17B)
[AJ-YA655]DIO(P200-8A)
TRQ1
RRQ1
RXLRCK1
PRTY
DMUTE L
RXLRCK2
TRQ2
RRQ2
OPB DATA12
ADDA CUE(P4001-17C)
DASD12
ADDA CUE(P4001-20C)
CUE MET DATA
REC/PB(P2-19A)
PB DATA12
TP1<2>
IC10<4>
RATE CONV
X1 16MHz
IC52<4>
BYPS L
REC/PB(P2-18B)
V IN(P2-16A)
V OUT(P2-13C)
INH
INCOM HST N
REF HST N
IC5<2>
REF FH
TP7<6>
TP5<6>
SEL FH0
SEL FH1
TP16<2>
REC/PB(P1-22B)
PB FRP
PB FRP1
[AJ-YA655]A DIO(P200-14B)
[AJ-YA655]A DIO(P200-15B)
[AJ-YA655]A DIO(P200-15A)
FS64 4
FS128 2
FS 4
IC200<9>
IC30<7>
FS D
FS M
FS 3
FS 2
FS 1
FS 1-
IC34<7>
REC/PB(P2-16C)
FS
IC7<2>
ADDA CUE(P4001-19B)
WCK1
ADDA CUE(P4001-19A)
MCK1
TP14<2>
IC9<4>
REC/PB(P2-18C)
FS P
FS 1P
REC/PB(P2-17A)
FS64 PB
FS64 1P
X4<6>
12.288M
AUDIO MASTER CLOCK
TP6<6>
TP8<6>
PLL
IC28<6>
BUFFER
CK12
FS256
X3<6>
4.5M
IC25<6>
IC26<6>
CK45
C FH
FS128 S2
FS128 S1
IC31<7>
FS 128M
TP19<7>
FS256 1
FS256 2
FS64 S2
FS64 S1
FS64 S3
FS64 S4
FS64 5
FS64 3
FS64 M
FS64 2
TP20<7>
FS64 1
IC12<4>
TP2
T OUT2
RXBCK1
RXBCK2
RXLRCK1
RXLRCK2
PRTY
FS64 3
FS 3
METER
RECFRP1
CLK18
FS M
FS64 M
FS128 M
1/N
1/1024
C 12
R 12
PCM
VR OUT2
PB DATA
CUE M DATA
IC54<2>
SRC IN
IC51<2>
D-FF
CK
FS 1
1/375
1/286
COPBL
PB LRCK
PB BCK
FRAME
INTERNAL SG
ANALOG
DIGITAL
CUE MIX
RRST
DELAY
FIFO CTRL
FS
FRAME LOCK
for A/V TIMING
BUFF MEM CTRL
IC11,13<4>
BUFF MEM
DA1
SPD1
D OUT
VR IN2
MUTE
MONITOR OUT SELECT
MON OUT
VALID
FIELD
FS32 J
LEAP(NTSC ONLY)
AV ADL[0~7]
AV ADRS[0~10]
AD RD
AD WR
A CNT CS
FEND1
REF FRM1
FR I
PB FRM1
A REC FRP
BLKSYNC
PB LEAP1(NTSC ONLY)
IC14~23<5>
JOG/VAR
4 FIELD MEMORY CONTROL
PONRST N
IC57<4>
IC54<4>
IC41<4>
TP3<4>
TP4<4>
IC35~46,53,58<8>
SYS IF
JOG CS
JOG ON L
AD SEL0
AD SEL1
SEL FH0
SEL FH1
BYPS L
DMUTE L
DLOCK1
SLOW MODE
CUEM MUTE L
SIOCS1
DIOCS1
TRQ1
TRQ2
RRQ1
RRQ2
MONI DATA
IC51<4>
ID DATA12
RRST
DLOCK1
FEND
REF FRAME
TAPE REV H
PB FRM A
WRST1
WRST2
RXBCK2
CUE MIX DATA
TP12<2>
TP17<2>
REC DATA12
TP18<2>
REC FRM
TP13<2>
FRM5
A DIO(P200-7A)[AJ-YA655]
A DIO(P200-12B)[AJ-YA655]
A DIO(P200-18A)[AJ-YA655]
REC/PB(P1-18A)
V OUT(P2-13B)
SERVO(P2-2B)
REC/PB(P2-19C)
A DIO(P200-12A)[AJ-YA655]
A DIO(P200-13A)[AJ-YA655]
A DIO(P200-11B)[AJ-YA655]
ADDA CUE(P4001-21A)
REC/PB(P2-15B)
REC/PB(P2-18A)
A DIO(P200-13B)[AJ-YA655]
REC/PB(P2-20A)
AV CS AUD L
AV IORD L
AV IOWR L
AV RST L
SYSCON(P1-22B)
SYSCON(P1-26B~27A)
AV DATA BUS(7)
AV DATA BUS(6)
AV DATA BUS(5)
AV DATA BUS(4)
AV DATA BUS(3)
AV DATA BUS(2)
AV DATA BUS(1)
AV DATA BUS(0)
SYSCON(P1-27B~29C)
AV ADRS BUS(10)
AV ADRS BUS(9)
AV ADRS BUS(8)
AV ADRS BUS(7)
AV ADRS BUS(6)
AV ADRS BUS(5)
AV ADRS BUS(4)
AV ADRS BUS(3)
AV ADRS BUS(2)
AV ADRS BUS(1)
AV ADRS BUS(0)
SYSCON(P1-22C~26A)
OP L
A DIO(P200-30B)[AJ-YA655]
AV ADL[0~7]
AV ADRS[0~6]
SIOCS1
DIOCS1
AV RD
AV WR
AD SEL0
AD SEL1
PONRST N
A DIO(P200-22A~25B)[AJ-YA655]
A DIO(P200-26A~29A)[AJ-YA655]
A DIO(P200-20B)[AJ-YA655]
A DIO(P200-20A)[AJ-YA655]
A DIO(P200-21A)[AJ-YA655]
A DIO(P200-21B)[AJ-YA655]
A DIO(P200-19A)[AJ-YA655]
A DIO(P200-19B)[AJ-YA655]
A DIO(P200-29B)[AJ-YA655]
IC6<2>
BUFFER
DASDLR
not used
IC7<2>
BCK1
ADDA CUE(P4001-18A)
FS64
REC/PB(P12-17C)
IC8<2>
FS256 P
FS256 N
DAUDCK P
DAUDCK N
REC/PB(P2-16B)
REC/PB(P2-16A)
[AJ-YA750]SIF(P2-12B)
[AJ-YA750]SIF(P2-12C)

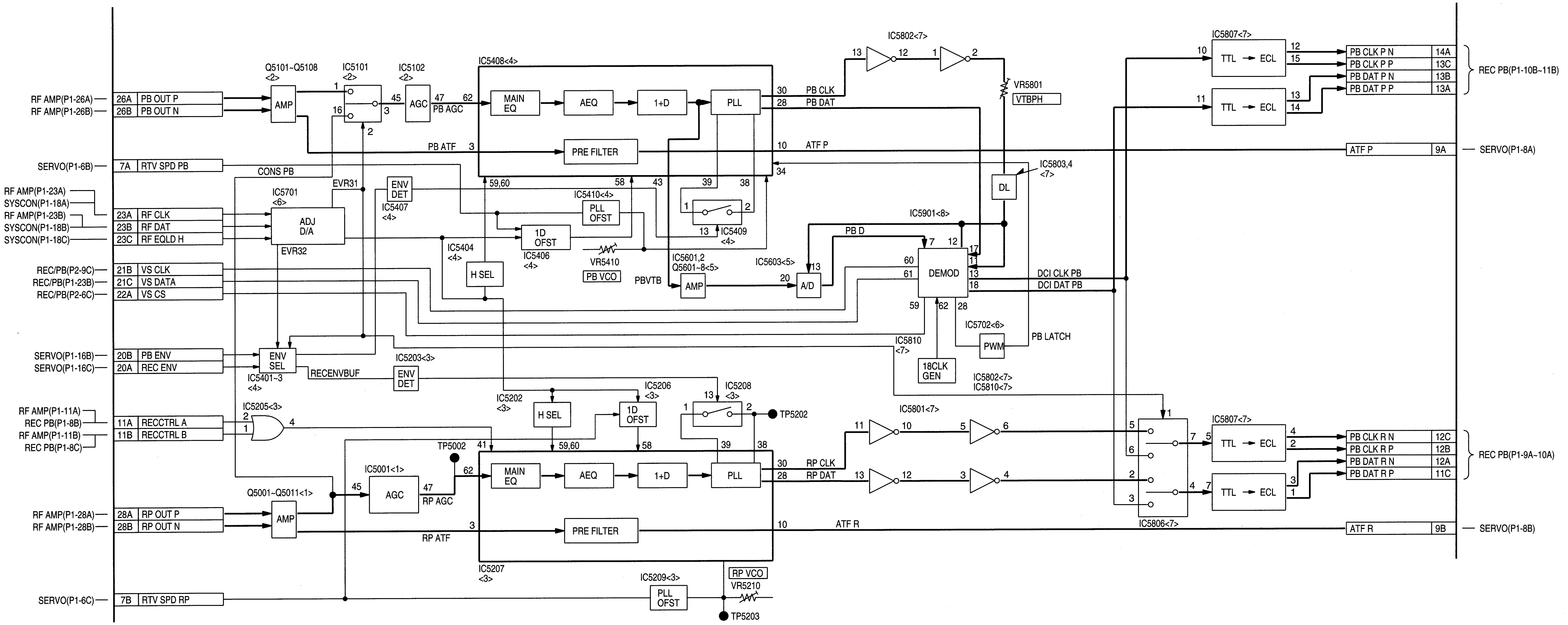
F8: ADDA CUE 1/2 BLOCK DIAGRAM


FROM F8 2/2
SEARCH CUE
CUE MET AD
A JACK(P029-18A)
A JACK(P029-17AB)
A JACK(P029-18B)
P4001(P015)
6A CH1 IN C
6B CH1 IN G
6C CH1 IN H
SW4001<1>
IMP SEL 600/HIGH
MENU
IC4004,4005 <1>
LEVEL SEL -20/0/+4
9,10
CH1 IN SEL(1:0)
IC4006<1>
BAL/UNBAL AMP
VR4001 (PAT)
CH1 CMR
INPUT LEVEL ADJ
VR4002
CH1 IN LEVEL
A JACK(P029-16A)
A JACK(P029-15AB)
A JACK(P029-16B)
8A CH2 IN C
8B CH2 IN G
8C CH2 IN H
SW4061<2>
IC4064,4065 <2>
CH2 IN SEL(1:0)
IC4066<2>
VR4061 (PAT)
CH2 CMR
VR4062
CH2 IN LEVEL
SYSCON(P1-26B)
SYSCON(P1-26C)
SYSCON(P1-27A)
SYSCON(P1-22B)
26B AV IORD L
26C AV IOWR L
27A AV RST L
22B AV CS AUDIO L
IC4553,4554, 4555,4556<11>
BUFFER
IC4555<11>
IC4557<11>
RESET
CH1 IN SEL(1:0)
CH2 IN SEL(1:0)
P DOWN L
DE EMP ON
MONI OUT SEL(1:0)
CH1 OUT SEL(1:0)
CH2 OUT SEL(1:0)
P MUT H
MUTE H
SYSCON(P1-27B~29C)
27B AV DATA(7)
27C AV DATA(6)
28A AV DATA(5)
28B AV DATA(4)
28C AV DATA(3)
29A AV DATA(2)
29B AV DATA(1)
29C AV DATA(0)
SYSCON(P1-22C,23A)
SYSCON(P1-25C,26A)
22C AV ADRS(10)
23A AV ADRS(9)
25C AV ADRS(1)
26A AV ADRS(0)
A PROC(P1-18B)
18B DASD12
PB DATA FOR LINE OUT
A PROC(P1-19B)
A PROC(P1-18A)
A PROC(P1-19A)
19B WCK1
18A BCK1
19A MCK1
IC4192<4>
TP4191 <4>
QR4191
IC4193<4>
D/A AK4320
SDATA
P DOWN L
FS
FS64
FS256
IC4194<4>
IC4195<4>
TP4192 <4>
TP4193 <4>
CH1
CH2
DA CH1
DA CH2
IC4008<1>
CH1 AD IN
IC4068<2>
CH2 AD IN
TP4121 <3>
TP4122 <3>
IC4121<3>
IC4122<3>
IC4128<3>
ΔΣ
SERIAL I/O
SDATA
L/R
SCLK
MCLK
IC4131<3>
TP4125 <3>
TP4126<3>
IC4129<3>
DA OUT CH1
TO F8 2/2
IC4123<3>
TP4124
TP4123
(P016)P4002
CH1 VAR(+) 26A
CH2 VAR(+) 24A
CH2 VAR(-) 24C
CH1 VAR(-) 26C
FRONT(P22-6)
FRONT(P22-9)
FRONT(P22-10)
FRONT(P22-7)
(P015)P4001
ADSD12 17C
CUE MET DATA 20C
A PROC(P1-17C)
A PROC(P1-20C)
CUE MIX DATA 21A
A PROC(P1-21A)
+12V
P ON MUT
Q4341,42, 43,44, QR4341,42<7>
IC4226<5>
IC4223<5>
OUTPUT LEVEL ADJ
VR4221
CH1 OUT LEVEL
TP4221 <5>
MENU
CH1 OUT SEL(1:0)
IC4223, 4224<5>
IC4225,Q4221~4 <5>
OUTPUT AMP
VR4222 (PAT)
CH1 BAL
MUT
Q4226~9<5>
CH1 OUT C 10A
CH1 OUT G 10B
CH1 OUT H 10C
A JACK(P029-14A)
A JACK(P029-13AB)
A JACK(P029-14B)
IC4284<6>
IC4281<6>
VR4281
CH2 OUT LEVEL
TP4281 <6>
CH2 OUT SEL(1:0)
IC4281, 4282<6>
IC4283,Q4281~4 <6>
VR4282 (PAT)
CH2 BAL
Q4286~9<6>
CH2 OUT C 12A
CH2 OUT G 12B
CH2 OUT H 12C
A JACK(P029-12A)
A JACK(P029-11AB)
A JACK(P029-12B)
IC4345<7>
VR4341 (PAT)
MONITOR OUT LEVEL
Q4348<7>
MONI OUT 14C
MONI OUT G 14B
A JACK(P029-10B)
A JACK(P029-9AB)
IC4341,4342 4344<7>
MONI OUT SELECTOR
Q4345<7>
Q4346<7>
IC4343<7>
H.P AMP (L)
H.P AMP (R)
NTSC
HP SIG L 29A
HP SIG R 29B
HP R G 29C
HP L G 28A
FRONT(P022-1)
FRONT(P022-3)
FRONT(P022-4)
FRONT(P022-2)
FROM F8 2/2
LINE OUT CUE
CUE MONI
AV IORD L
AV IOWR L
AV RST H
AV CS AUDIO L
AV DATA(7:0)
AV ADRS(10,9,1,0)
TO F8 2/2

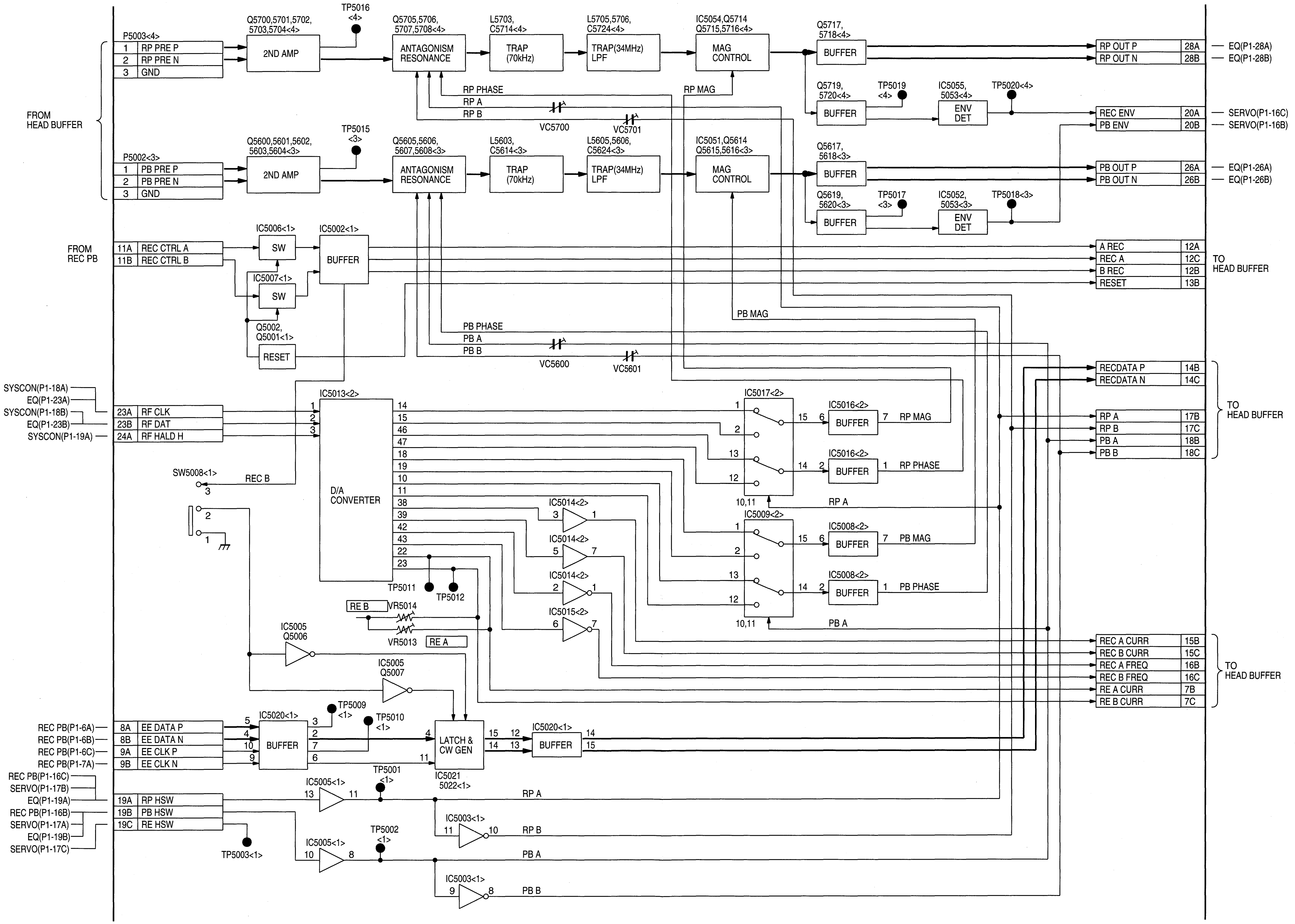
F8: ADDA CUE 2/2 BLOCK DIAGRAM


IC4463<9>
CUE MONI
TO F8 1/2
FROM F8 1/2
DA OUT CH1
IC4461<9>
LIM
7
CUE 12
IC4466<9>
13
PB
14
R4470
R4486<9>
ATT
CUE MET AD
TO F8 1/2
DET
IC4462<9>
CUE PB/EE N
IC4558<11>
CUE PB/EE N
CUE PB/REC N
CUE HS REC
CUE HS PB
ME/MP N
CUE PB/REC N
ME/MP N
CUE PB/EE N
CUE HS REC
CUE HS PB
REC CURR
VR4381
FL4381<8>
IC4381<8>
IC4383<8>
IC4388<8>
9
EE
CUE HEAD
P4002
21C CUE R/P HEAD H
21A CUE R/P HEAD C
21B CUE R/P HEAD G
BIAS TRAP
REC EQ AMP
SW4381
ME/MP/MUT SEL
IC4382<8>
8
TP4381
ENC
NR
DEC
1
3
6
LPF
4
5
3
PB
IC4382<8>
HEAD SW
Q4381,4382, 4383,4384, 4385,4386 <8>
QR4381,4382
TEST/ NORMAL
SW4382
LINE OUT CUE
SEARCH CUE
LINE OUT CUE
TO F8 1/2
SEARCH CUE
TO F8 1/2
PB LEVEL
VR4382
BEF F
VR4385
IC4384<8>
IC4386<8>
3
PB EQ AMP
PB BUFF AMP
150HZ BEF
ATT
10
TP4382
TP4383
IC4384, 4385<8>
IC4385<8>
CUE ATT(1:0)
OSC ON
CTL ERASE ON
CUE ERASE ON
CUE BIAS ON
CUE BIAS
VR4501 <10>
IC4392<8>
IC4391<8>
P4001
SYL FG+
19C
M IF(P024-34B)
IC4392 <8>
CANCEL LEVEL
PHASE SHIFT
800Hz LPF
VR4384
C LV
VR4383
C PS
CUE BIAS ON
CUE BIAS DRIVE
T4502<10>
CUE ERASE ON
OSC ON
CUE ERASE DRIVE
70KHz OSC
T4501<10>
CUE ERASE HEAD
P4002
19C CUE EH H
19A CUE EH C
19B CUE EH G
17C CTL EH H
17A CTL EH C
17B CTL EH G
R4532
1
TP4501
T4503<10>
CTL ERASE ON
CTL ERASE DRIVE
R4534
1
TP4502
T4504<10>
CTL ERASE HEAD
FROM F8 1/2
AV IORD L
AV IOWR L
AV RST H
AV CS AUDIO L
AV DATA(7:0)
AV ADRS(10,9,1,0)

H3 EQ BLOCK DIAGRAM

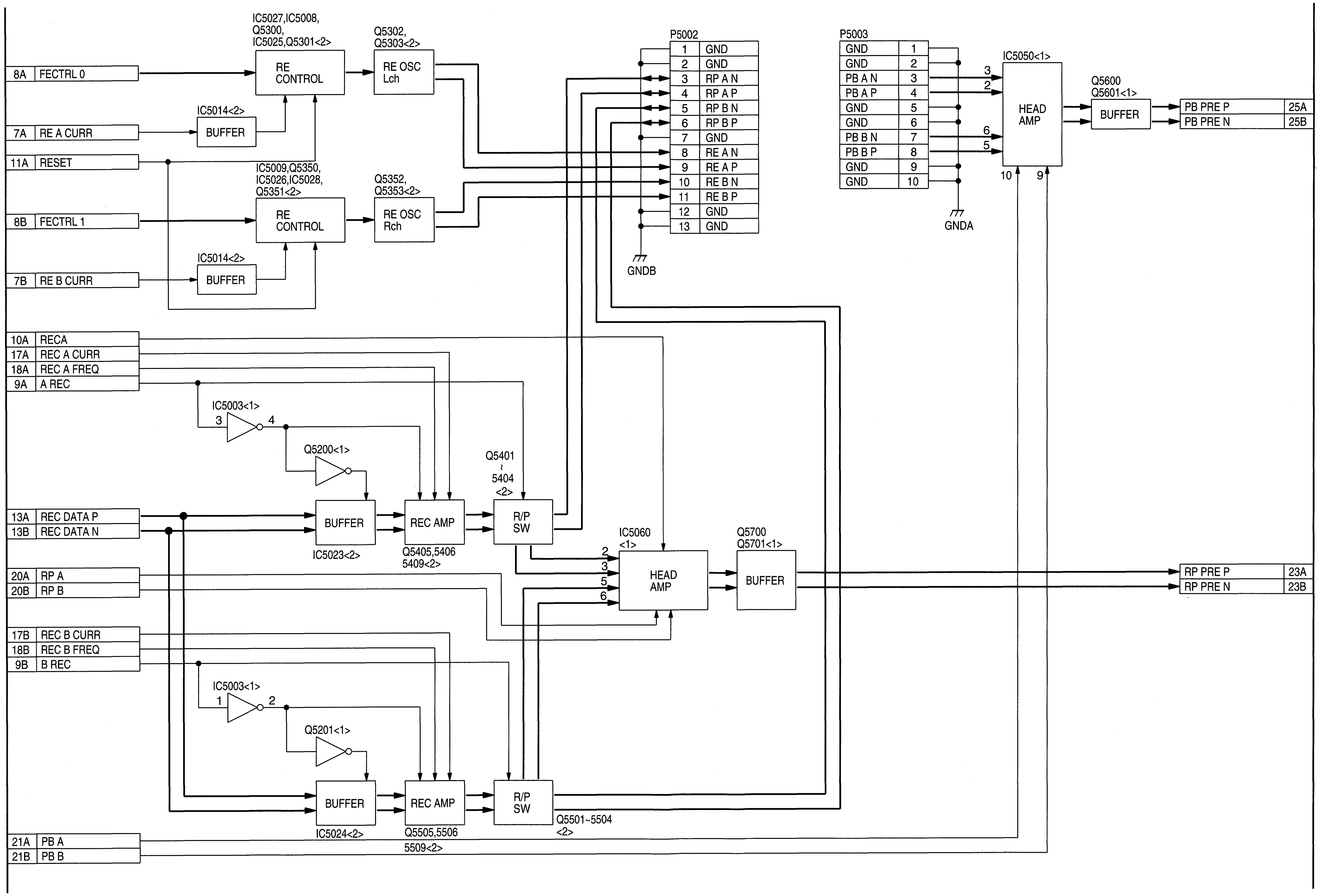

RF AMP(P1-26A)
RF AMP(P1-26B)
26A PB OUT P
26B PB OUT N
SERVO(P1-6B)
7A RTV SPD PB
RF AMP(P1-23A)
SYSCON(P1-18A)
RF AMP(P1-23B)
SYSCON(P1-18B)
SYSCON(P1-18C)
23A RF CLK
23B RF DAT
23C RF EQLD H
REC/PB(P2-9C)
REC/PB(P1-23B)
REC/PB(P2-6C)
21B VS CLK
21C VS DATA
22A VS CS
SERVO(P1-16B)
SERVO(P1-16C)
20B PB ENV
20A REC ENV
RF AMP(P1-11A)
REC PB(P1-8B)
RF AMP(P1-11B)
REC PB(P1-8C)
11A RECCTRL A
11B RECCTRL B
RF AMP(P1-28A)
RF AMP(P1-28B)
28A RP OUT P
28B RP OUT N
SERVO(P1-6C)
7B RTV SPD RP
Q5101~Q5108 <2>
AMP
IC5101 <2>
IC5102 <2>
AGC
PB AGC
IC5408<4>
MAIN EQ
AEQ
1+D
PLL
PRE FILTER
PB ATF
CONS PB
59,60
58
43
39
38
34
30 PB CLK
28 PB DAT
10 ATF P
IC5701 <6>
ADJ D/A
EVR32
EVR31
ENV DET
IC5407 <4>
IC5410<4>
PLL OFST
1D OFST
IC5406 <4>
IC5404 <4>
H SEL
VR5410
PB VCO
IC5409 <4>
IC5601,2 Q5601~8<5>
PBVTB
AMP
IC5603<5>
A/D
PB D
IC5901<8>
DEMOD
IC5802<7>
VR5801
VTBPH
DL
IC5803,4 <7>
DCI CLK PB
DCI DAT PB
IC5702<6>
PWM
PB LATCH
IC5810 <7>
18CLK GEN
IC5802<7>
IC5810<7>
IC5807<7>
TTL → ECL
PB CLK P N 14A
PB CLK P P 13C
PB DAT P N 13B
PB DAT P P 13A
REC PB(P1-10B~11B)
ATF P 9A
SERVO(P1-8A)
ENV SEL
IC5401~3 <4>
RECENVBUF
IC5203<3>
ENV DET
IC5205<3>
IC5202 <3>
H SEL
IC5206 <3>
1D OFST
IC5208 <3>
TP5202
TP5002
IC5001<1>
AGC
RP AGC
Q5001~Q5011<1>
AMP
MAIN EQ
AEQ
1+D
PLL
PRE FILTER
RP ATF
30 RP CLK
28 RP DAT
10 ATF R
IC5207 <3>
IC5209<3>
PLL OFST
RP VCO
VR5210
TP5203
IC5801<7>
IC5806<7>
IC5807<7>
TTL → ECL
PB CLK R N 12C
PB CLK R P 12B
PB DAT R N 12A
PB DAT R P 11C
REC PB(P1-9A~10A)
ATF R 9B
SERVO(P1-8B)

H4 RF AMP BLOCK DIAGRAM



FROM HEAD BUFFER
P5003<4>
1 RP PRE P
2 RP PRE N
3 GND
P5002<3>
1 PB PRE P
2 PB PRE N
3 GND
Q5700,5701,5702, 5703,5704<4>
2ND AMP
TP5016 <4>
Q5705,5706, 5707,5708<4>
ANTAGONISM RESONANCE
L5703, C5714<4>
TRAP (70kHz)
L5705,5706, C5724<4>
TRAP(34MHz) LPF
IC5054,Q5714 Q5715,5716<4>
MAG CONTROL
Q5717, 5718<4>
BUFFER
RP OUT P 28A — EQ(P1-28A)
RP OUT N 28B — EQ(P1-28B)
RP PHASE
RP A
RP B
VC5700
VC5701
RP MAG
Q5719, 5720<4>
TP5019 <4>
IC5055, 5053<4>
TP5020<4>
ENV DET
REC ENV 20A — SERVO(P1-16C)
PB ENV 20B — SERVO(P1-16B)
Q5600,5601,5602, 5603,5604<3>
TP5015 <3>
Q5605,5606, 5607,5608<3>
L5603, C5614<3>
L5605,5606, C5624<3>
IC5051,Q5614 Q5615,5616<3>
Q5617, 5618<3>
PB OUT P 26A — EQ(P1-26A)
PB OUT N 26B — EQ(P1-26B)
Q5619, 5620<3>
TP5017 <3>
IC5052, 5053<3>
TP5018<3>
FROM REC PB
11A REC CTRL A
11B REC CTRL B
IC5006<1>
SW
IC5002<1>
BUFFER
IC5007<1>
SW
Q5002, Q5001<1>
RESET
A REC 12A
REC A 12C
B REC 12B
RESET 13B
TO HEAD BUFFER
PB MAG
PB PHASE
PB A
PB B
VC5600
VC5601
RECDATA P 14B
RECDATA N 14C
SYSCON(P1-18A)
EQ(P1-23A)
SYSCON(P1-18B)
EQ(P1-23B)
SYSCON(P1-19A)
23A RF CLK
23B RF DAT
24A RF HALD H
IC5013<2>
D/A CONVERTER
1 2 3
14 15 46 47 18 19 10 11 38 39 42 43 22 23
SW5008<1>
REC B
3 2 1
IC5017<2>
IC5016<2>
BUFFER
RP MAG
RP PHASE
RP A
IC5009<2>
IC5008<2>
PB MAG
PB PHASE
PB A
10,11
IC5014<2>
IC5015<2>
TP5011
TP5012
RE B
VR5014
VR5013
RE A
RP A 17B
RP B 17C
PB A 18B
PB B 18C
TO HEAD BUFFER
REC A CURR 15B
REC B CURR 15C
REC A FREQ 16B
REC B FREQ 16C
RE A CURR 7B
RE B CURR 7C
TO HEAD BUFFER
IC5005 Q5006
IC5005 Q5007
REC PB(P1-6A)
REC PB(P1-6B)
REC PB(P1-6C)
REC PB(P1-7A)
8A EE DATA P
8B EE DATA N
9A EE CLK P
9B EE CLK N
IC5020<1>
BUFFER
TP5009 <1>
TP5010 <1>
LATCH & CW GEN
IC5021 5022<1>
IC5020<1>
BUFFER
TP5001 <1>
REC PB(P1-16C)
SERVO(P1-17B)
EQ(P1-19A)
REC PB(P1-16B)
SERVO(P1-17A)
EQ(P1-19B)
SERVO(P1-17C)
19A RP HSW
19B PB HSW
19C RE HSW
TP5003<1>
IC5005<1>
RP A
IC5003<1>
RP B
TP5002 <1>
IC5005<1>
PB A
IC5003<1>
PB B

HEAD BUFFER BLOCK DIAGRAM

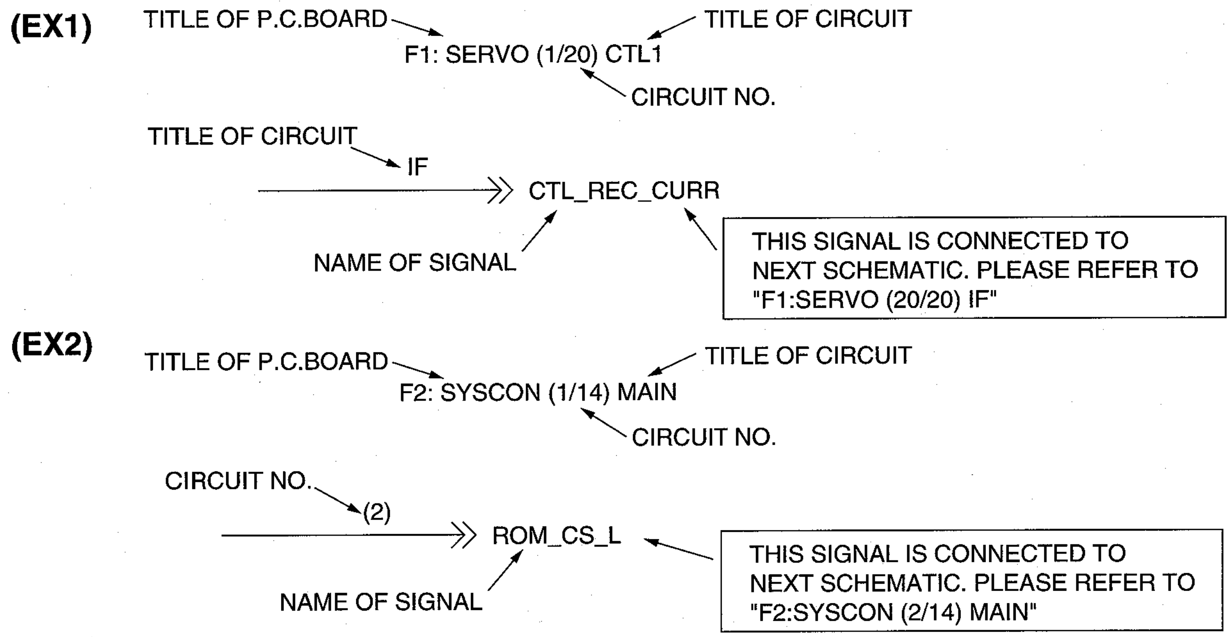

8A FECTRL 0
7A RE A CURR
11A RESET
8B FECTRL 1
7B RE B CURR
10A RECA
17A REC A CURR
18A REC A FREQ
9A A REC
13A REC DATA P
13B REC DATA N
20A RP A
20B RP B
17B REC B CURR
18B REC B FREQ
9B B REC
21A PB A
21B PB B
IC5027,IC5008, Q5300, IC5025,Q5301<2>
RE CONTROL
Q5302, Q5303<2>
RE OSC Lch
IC5014<2>
BUFFER
IC5009,Q5350, IC5026,IC5028, Q5351<2>
RE CONTROL
Q5352, Q5353<2>
RE OSC Rch
IC5014<2>
BUFFER
P5002
1 GND
2 GND
3 RP A N
4 RP A P
5 RP B N
6 RP B P
7 GND
8 RE A N
9 RE A P
10 RE B N
11 RE B P
12 GND
13 GND
GNDB
P5003
GND 1
GND 2
PB A N 3
PB A P 4
GND 5
GND 6
PB B N 7
PB B P 8
GND 9
GND 10
GNDA
IC5050<1>
HEAD AMP
3
2
6
5
10
9
Q5600 Q5601<1>
BUFFER
PB PRE P 25A
PB PRE N 25B
IC5003<1>
3
4
Q5200<1>
Q5401 ~ 5404 <2>
BUFFER
IC5023<2>
REC AMP
Q5405,5406 5409<2>
R/P SW
IC5060 <1>
2
3
5
6
HEAD AMP
Q5700 Q5701<1>
BUFFER
RP PRE P 23A
RP PRE N 23B
IC5003<1>
1
2
Q5201<1>
BUFFER
IC5024<2>
REC AMP
Q5505,5506 5509<2>
R/P SW
Q5501~5504 <2>

SECTION 7

SCHEMATIC DIAGRAMS

Note:

1. Do not use the part number shown on the schematic diagram or P.C.Board layout for ordering.
   The correct part number for ordering is shown in the Exploded Views/Parts List section.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.


(EX1)
TITLE OF P.C.BOARD
TITLE OF CIRCUIT
F1: SERVO (1/20) CTL1
CIRCUIT NO.
TITLE OF CIRCUIT
IF
CTL_REC_CURR
NAME OF SIGNAL
(EX2)
TITLE OF P.C.BOARD
TITLE OF CIRCUIT
F2: SYSCON (1/14) MAIN
CIRCUIT NO.
CIRCUIT NO.
(2)
ROM_CS_L
NAME OF SIGNAL

THIS SIGNAL IS CONNECTED TO NEXT SCHEMATIC. PLEASE REFER TO "F1:SERVO (20/20) IF"

THIS SIGNAL IS CONNECTED TO NEXT SCHEMATIC. PLEASE REFER TO "F2:SYSCON (2/14) MAIN"

∗ mark ⇒ Parts value, see table in the schematic diagram.

(EX:)

	AJ-D940P	AJ-D940E	
R2018	10K	10K	← 10KΩ
R2019	20K	*PAT	← No part

NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE ☐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

MOTHER (1/11) SCM01
MOTHER (2/11) SCM02
MOTHER (3/11) SCM03
MOTHER (4/11) SCM04
MOTHER (5/11) SCM05
MOTHER (6/11) SCM06
MOTHER (7/11) SCM07
MOTHER (8/11) SCM08
MOTHER (9/11) SCM09
MOTHER (10/11) SCM10
MOTHER (11/11) SCM11
F1: SERVO (1/19) CTL 1 .... SCM12
F1: SERVO (2/19) CTL 2 .... SCM13
F1: SERVO (3/19) CTL 3 .... SCM14
F1: SERVO (4/19) CAP_FG SCM15
F1: SERVO (5/19) S_FG SCM16
F1: SERVO (6/19) T_FG........................... SCM17
F1: SERVO (7/19) AD_DA........................ SCM18
F1: SERVO (8/19) CPU 1 .... SCM19
F1: SERVO (9/19) CPU 2 .... SCM20
F1: SERVO (10/19) CPU 3 .... SCM21
F1: SERVO (11/19) CPU 4 .... SCM22
F1: SERVO (12/19) ATF SCM23
F1: SERVO (13/19) SW 1 .... SCM24
F1: SERVO (14/19) SW 2 .... SCM25
F1: SERVO (15/19) CA CY DRY SCM26
F1: SERVO (16/19) RL_DRV..................... SCM27
F1: SERVO (17/19) LM_DRV SCM28
F1: SERVO (18/19) POWER SCM29
F1: SERVO (19/19) IF.............................. SCM30
F2: SYSCON (1/13) MAIN SCM31
F2: SYSCON (2/13) MAIN SCM32
F2: SYSCON (3/13) MAIN SCM33
F2: SYSCON (4/13) MAIN SCM34
F2: SYSCON (5/13) MAIN SCM35
F2: SYSCON (6/13) I/F SCM36
F2: SYSCON (7/13) I/F SCM37
F2: SYSCON (8/13) I/F SCM38
F2: SYSCON (9/13) I/F SCM39
F2: SYSCON (10/13) AV_I/F SCM40
F2: SYSCON (11/13) AV_I/F SCM41
F2: SYSCON (12/13) AV_I/F SCM42
F2: SYSCON (13/13) SCM43
F4: V_OUT (1/16) CONNECTOR SCM44
F4: V_OUT (2/16) SYS_IF SCM45
F4: V_OUT (3/16) D_IN_BUFF SCM46
F4: V_OUT (4/16) D_BUFF SCM47
F4: V_OUT (5/16) CMPNENT_DA SCM48
F4: V_OUT (6/16) CMPNENT_BUFF......... SCM49
F4: V_OUT (7/16) ANLOG_ENC................ SCM50
F4: V_OUT (8/16) D_OUT_BUFF SCM51
F4: V_OUT (9/16) D_ENC.......................... SCM52
F4: V_OUT (10/16) YC_MIX....................... SCM53
F4: V_OUT (11/16) COMPSITE_BUFF...... SCM54
F4: V_OUT (12/16) SYNC_GEN_1 .... SCM55
F4: V_OUT (13/16) SYNC_GEN_2 .... SCM56
F4: V_OUT (14/16) SYNC_GEN_3 .... SCM57
F4: V_OUT (15/16) SYNC_GEN_4 .... SCM58
F4: V_OUT (16/16) REG SCM59
F5: REC PB (1/23) MPL/BUS_SEL........... SCM60
F5: REC PB (2/23) PLL SCM61
F5: REC PB (3/23) REC_SHUT SCM62
F5: REC PB (4/23) REC_COMP, AUD SCM63
F5: REC PB (5/23) REC_ECC SCM64
F5: REC PB (6/23) REC_DCI..................... SCM65
F5: REC PB (7/23) PB_PCI........................ SCM66
F5: REC PB (8/23) PB_ECC SCM67
F5: REC PB (9/23) PB_AUD, COMP SCM68
F5: REC PB (10/23) PB_SHUF SCM69
F5: REC PB (11/23) TBC/FILTER.............. SCM70
F5: REC PB (12/23) OUT_BUFF2............. SCM71
F5: REC PB (13/23) PAL........................... SCM72
F5: REC PB (14/23) RECPB_CTRL........... SCM73
F5: REC PB (15/23) VIDEO_DATA............ SCM74
F5: REC PB (16/23) PIO SCM75
F5: REC PB (17/23) SEC_PB SCM76
F5: REC PB (18/23) SEC_REC.................. SCM77
F5: REC PB (19/23) SERVO_SEPA SCM78
F5: REC PB (20/23) DVC_RETERN SCM79
F5: REC PB (21/23) DIF............................ SCM80
F5: REC PB (22/23) POWER..................... SCM81
F5: REC PB (23/23) MOTHER................... SCM82

450 (NTSC) ONLY

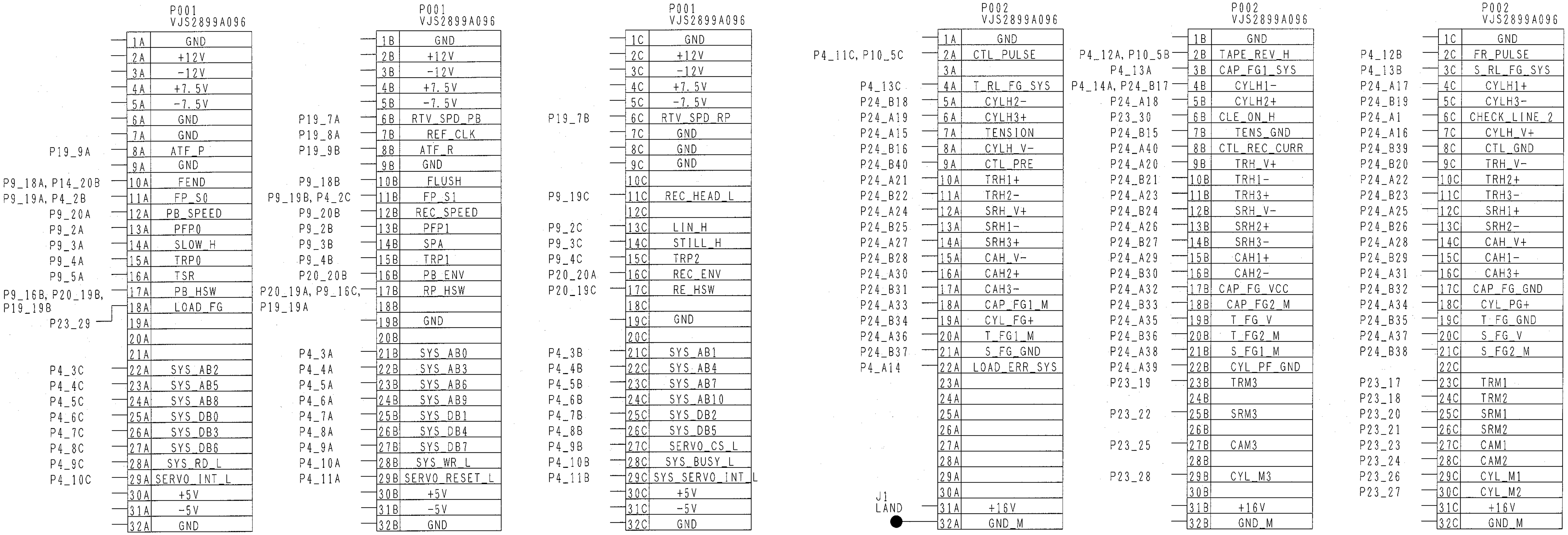
F6: V_IN (1/20) CONNECTOR................... SCM83
F6: V_IN (2/20) POWER SCM84
F6: V_IN (3/20) INBUFF SCM85
F6: V_IN (4/20) SYS_IF............................. SCM86
F6: V_IN (5/20) SIF_DEC........................... SCM87
F6: V_IN (6/20) GAIN_CNTRL...................... SCM88
F6: V_IN (7/20) 1ST_AD SCM89
F6: V_IN (8/20) DECODER.......................... SCM90
F6: V_IN (9/20) 4FSC_PLL SCM91

F6: V_IN(10/20) C_DEM ... SCM92
F6: V_IN (11/20) SYNC_SEP ... SCM93
F6: V_IN (12/20) 135M_PLL ... SCM94
F6: V_IN (13/20) M2_BACM_SELECT ... SCM95
F6: V_IN (14/20) 2ND_AD_Y ... SCM96
F6: V_IN (15/20) 2ND_AD_PB ... SCM97
F6: V_IN (16/20) 2ND_AD_PR ... SCM98
F6: V_IN (17/20) TBC ... SCM99
F6: V_IN (18/20) OUTBUFF ... SCM100
F6: V_IN (19/20) SLICER ... SCM101
F6: V_IN (20/20) DIG_DEC ... SCM102

450 (PAL) ONLY

F6: V_IN (1/20) CONNECTOR ... SCM103
F6: V_IN (2/20) POWER ... SCM104
F6: V_IN (3/20) INBUFF ... SCM105
F6: V_IN (4/20) SYS_IF ... SCM106
F6: V_IN (5/20) SIF_DEC ... SCM107
F6: V_IN (6/20) GAIN_CNTRL ... SCM108
F6: V_IN (7/20) 1ST_AD ... SCM109
F6: V_IN (8/20) DECODER ... SCM110
F6: V_IN(9/20) 4FSC_PLL ... SCM111
F6: V_IN(10/20) C_DEM ... SCM112
F6: V_IN (11/20) SYNC_SEP ... SCM113
F6: V_IN (12/20) 135M_PLL ... SCM114
F6: V_IN (13/20) M2_BCAM_SELECT ... SCM115
F6: V_IN (14/20) 2ND_AD_Y ... SCM116
F6: V_IN (15/20) 2ND_AD_PB ... SCM117
F6: V_IN (16/20) 2ND_AD_PR ... SCM118
F6: V_IN (17/20) TBC ... SCM119
F6: V_IN (18/20) OUTBUFF ... SCM120
F6: V_IN (19/20) SLICER ... SCM121
F6: V_IN (20/20) DIG_DEC ... SCM122
F7: A_PROC (1/13) CONNECTOR ... SCM123
F7: A_PROC (2/13) IO_BUFFER ... SCM124
F7: A_PROC (3/13) AIN_DLY ... SCM125
F7: A_PROC (4/13) AUDIO_CNT ... SCM126
F7: A_PROC (5/13) SLOW_CTL ... SCM127
F7: A_PROC (6/13) PLL ... SCM128
F7: A_PROC (7/13) CLK_BUFFER ... SCM129
F7: A_PROC (8/13) SYS_IF ... SCM130
F7: A_PROC (9/13) DIO_CONNECTOR ... SCM131
F7: A_PROC (10/13) DIO ... SCM132
F7: A_PROC (11/13) SIO ... SCM133
F7: A_PROC (12/13) DIN_DLY ... SCM134
F7: A_PROC (13/13) DOUT_DLY ... SCM135
F8: A_ADDA (1/12) ... SCM136
F8: A_ADDA (2/12) ... SCM137
F8: A_ADDA (3/12) ... SCM138
F8: A_ADDA (4/12) ... SCM139
F8: A_ADDA (5/12) ... SCM140
F8: A_ADDA (6/12) ... SCM141
F8: A_ADDA (7/12) ... SCM142
F8: A_ADDA (8/12) ... SCM143
F8: A_ADDA (9/12) ... SCM144
F8: A_ADDA (10/12) ... SCM145
F8: A_ADDA (11/12) ... SCM146
F8: A_ADDA (12/12) ... SCM147
H3: EQ (1/9) ... SCM148
H3: EQ (2/9) ... SCM149
H3: EQ (3/9) ... SCM150
H3: EQ (4/9) ... SCM151
H3: EQ (5/9) ... SCM152
H3: EQ (6/9) ... SCM153
H3: EQ (7/9) ... SCM154
H3: EQ (8/9) ... SCM155
H3: EQ (9/9) ... SCM156
H4: RF AMP (1/5) ... SCM157
H4: RF AMP (2/5) ... SCM158
H4: RF AMP (3/5) ... SCM159
H4: RF AMP (4/5) ... SCM160
H4: RF AMP (5/5) ... SCM161
HEAD BUFFER (1/2) ... SCM162
HEAD BUFFER (2/2) ... SCM163
V/S_JACK (1/4) ... SCM164
V/S_JACK (2/4) ... SCM165
V/S_JACK (3/4) ... SCM166
V/S_JACK (4/4) ... SCM167
POWER_1 (1/1)NTSC ... SCM168
POWER_1 (1/1)PAL ... SCM169
POWER_2 (1/1)NTSC ... SCM170
POWER_2 (1/2) PAL ... SCM171
POWER_2 (2/2) PAL ... SCM172
POWER CONNECT (1/1)PAL ONLY ... SCM173
MECHA_I/F (1/4) ... SCM174
MECHA_I/F (2/4) ... SCM175
MECHA_I/F (3/4) ... SCM176
MECHA_I/F (4/4) ... SCM177
CARRIGE (1/1) ... SCM178
A_JACK (1/1) ... SCM179
SUB_JACK (1/1) ... SCM180
EJECT (1/1) ... SCM181
FRONT CPU (1/3) CPU ... SCM182
FRONT CPU (2/3) CPU ... SCM183
FRONT CPU (3/3) CPU ... SCM184
HEAD PHONE (1/1) ... SCM185

SERVO (F1)



P001
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
	6A	GND
	7A	GND
P19_9A	8A	ATF_P
	9A	GND
P9_18A, P14_20B	10A	FEND
P9_19A, P4_2B	11A	FP_S0
P9_20A	12A	PB_SPEED
P9_2A	13A	PFP0
P9_3A	14A	SLOW_H
P9_4A	15A	TRP0
P9_5A	16A	TSR
P9_16B, P20_19B, P19_19B	17A	PB_HSW
P23_29	18A	LOAD_FG
	19A	
	20A	
	21A	
P4_3C	22A	SYS_AB2
P4_4C	23A	SYS_AB5
P4_5C	24A	SYS_AB8
P4_6C	25A	SYS_DB0
P4_7C	26A	SYS_DB3
P4_8C	27A	SYS_DB6
P4_9C	28A	SYS_RD_L
P4_10C	29A	SERVO_INT_L
	30A	+5V
	31A	-5V
	32A	GND

P001
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
P19_7A	6B	RTV_SPD_PB
P19_8A	7B	REF_CLK
P19_9B	8B	ATF_R
	9B	GND
P9_18B	10B	FLUSH
P9_19B, P4_2C	11B	FP_S1
P9_20B	12B	REC_SPEED
P9_2B	13B	PFP1
P9_3B	14B	SPA
P9_4B	15B	TRP1
P20_20B	16B	PB_ENV
P20_19A, P9_16C, P19_19A	17B	RP_HSW
	18B	
	19B	GND
	20B	
P4_3A	21B	SYS_AB0
P4_4A	22B	SYS_AB3
P4_5A	23B	SYS_AB6
P4_6A	24B	SYS_AB9
P4_7A	25B	SYS_DB1
P4_8A	26B	SYS_DB4
P4_9A	27B	SYS_DB7
P4_10A	28B	SYS_WR_L
P4_11A	29B	SERVO_RESET_L
	30B	+5V
	31B	-5V
	32B	GND

P001
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
P19_7B	6C	RTV_SPD_RP
	7C	GND
	8C	GND
	9C	GND
	10C	
P9_19C	11C	REC_HEAD_L
	12C	
P9_2C	13C	LIN_H
P9_3C	14C	STILL_H
P9_4C	15C	TRP2
P20_20A	16C	REC_ENV
P20_19C	17C	RE_HSW
	18C	
	19C	GND
	20C	
P4_3B	21C	SYS_AB1
P4_4B	22C	SYS_AB4
P4_5B	23C	SYS_AB7
P4_6B	24C	SYS_AB10
P4_7B	25C	SYS_DB2
P4_8B	26C	SYS_DB5
P4_9B	27C	SERVO_CS_L
P4_10B	28C	SYS_BUSY_L
P4_11B	29C	SYS_SERVO_INT_L
	30C	+5V
	31C	-5V
	32C	GND

P002
VJS2899A096

	1A	GND
P4_11C, P10_5C	2A	CTL_PULSE
	3A	
P4_13C	4A	T_RL_FG_SYS
P24_B18	5A	CYLH2-
P24_A19	6A	CYLH3+
P24_A15	7A	TENSION
P24_B16	8A	CYLH_V-
P24_B40	9A	CTL_PRE
P24_A21	10A	TRH1+
P24_B22	11A	TRH2-
P24_A24	12A	SRH_V+
P24_B25	13A	SRH1-
P24_A27	14A	SRH3+
P24_B28	15A	CAH_V-
P24_A30	16A	CAH2+
P24_B31	17A	CAH3-
P24_A33	18A	CAP_FG1_M
P24_B34	19A	CYL_FG+
P24_A36	20A	T_FG1_M
P24_B37	21A	S_FG_GND
P4_A14	22A	LOAD_ERR_SYS
	23A	
	24A	
	25A	
	26A	
	27A	
	28A	
	29A	
	30A	
	31A	+16V
J1 LAND	32A	GND_M

P002
VJS2899A096

	1B	GND
P4_12A, P10_5B	2B	TAPE_REV_H
P4_13A	3B	CAP_FG1_SYS
P4_14A, P24_B17	4B	CYLH1-
P24_A18	5B	CYLH2+
P23_30	6B	CLE_ON_H
P24_B15	7B	TENS_GND
P24_A40	8B	CTL_REC_CURR
P24_A20	9B	TRH_V+
P24_B21	10B	TRH1-
P24_A23	11B	TRH3+
P24_B24	12B	SRH_V-
P24_A26	13B	SRH2+
P24_B27	14B	SRH3-
P24_A29	15B	CAH1+
P24_B30	16B	CAH2-
P24_A32	17B	CAP_FG_VCC
P24_B33	18B	CAP_FG2_M
P24_A35	19B	T_FG_V
P24_B36	20B	T_FG2_M
P24_A38	21B	S_FG1_M
P24_A39	22B	CYL_PF_GND
P23_19	23B	TRM3
	24B	
P23_22	25B	SRM3
	26B	
P23_25	27B	CAM3
	28B	
P23_28	29B	CYL_M3
	30B	
	31B	+16V
	32B	GND_M

P002
VJS2899A096

	1C	GND
P4_12B	2C	FR_PULSE
P4_13B	3C	S_RL_FG_SYS
P24_A17	4C	CYLH1+
P24_B19	5C	CYLH3-
P24_A1	6C	CHECK_LINE_2
P24_A16	7C	CYLH_V+
P24_B39	8C	CTL_GND
P24_B20	9C	TRH_V-
P24_A22	10C	TRH2+
P24_B23	11C	TRH3-
P24_A25	12C	SRH1+
P24_B26	13C	SRH2-
P24_A28	14C	CAH_V+
P24_B29	15C	CAH1-
P24_A31	16C	CAH3+
P24_B32	17C	CAP_FG_GND
P24_A34	18C	CYL_PG+
P24_B35	19C	T_FG_GND
P24_A37	20C	S_FG_V
P24_B38	21C	S_FG2_M
	22C	
P23_17	23C	TRM1
P23_18	24C	TRM2
P23_20	25C	SRM1
P23_21	26C	SRM2
P23_23	27C	CAM1
P23_24	28C	CAM2
P23_26	29C	CYL_M1
P23_27	30C	CYL_M2
	31C	+16V
	32C	GND_M

COMPONENT NAME	MOTHER CIRCUIT	01/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(1/11)	SCM1	

SYSCON (F2)

P003
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7. 5V
	5A	-7. 5V
P29_B6	6A	TC_IN_H
P29_A4	7A	TC_OUT_C
P30_A15	8A	RECEIVE_A_IO
P30_B14	9A	TRANSMIT_B_IO
P30_A12	10A	TRANSMIT_A_OUT
P9_23A	11A	FEND_SYS
P7_17C	12A	C_GAIN
P30_B8	13A	SYS_SC_PHASE
P30_A6	14A	RET_GND
P30_B5, P22_2	15A	SERIAL_CLK
P30_A3	16A	DSR
P30_B2	17A	TXD
P19_23A, P20_23A	18A	RF_CLK
P20_24A	19A	RF_HALD_H
P9_21B	20A	AV_SBC_DAT
P5_10A	21A	P1394_A
COMMON	22A	AV_CS_APROC_L
	23A	AV_ADRS9
	24A	AV_ADRS6
	25A	AV_ADRS3
	26A	AV_ADRS0
	27A	AV_RST_L
	28A	AV_DATA5
	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P003
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7. 5V
	5B	-7. 5V
P29_A6	6B	TC_IN_C
P25_1	7B	FAN_PULSE1
P30_B15	8B	RECEIVE_B_IO
P30_A13	9B	RECEIVE_A_OUT
P30_B12	10B	TRANSMIT_B_OUT
P7_17A	11B	VIDEO_GAIN
P7_18A	12B	HUE
P30_A7	13B	SYS_SC_CORSE_1
P30_B6	14B	P_SERIAL_IN
P30_A4, P22_3	15B	STB_CLK16
P30_B3	16B	DTR
P30_A1	17B	CTS
P19_23B, P20_23B	18B	RF_DATA
P12_22C	19B	DEC_DAT
P9_21C	20B	SBC_AV_DAT
P5_22B, P11_22B, P7_22B	21B	AV_CS_VIDEO_L
P17_22B, P18_22B, P15_22B	22B	AV_CS_AUDIO_L
	23B	AV_ADRS8
COMMON	24B	AV_ADRS5
	25B	AV_ADRS2
	26B	AV_IORD_L
	27B	AV_DATA7
	28B	AV_DATA4
	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P003
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7. 5V
	5C	-7. 5V
P29_B4	6C	TC_OUT_H
P32_2	7C	FAN_PULSE2
P30_A14	8C	TRANSMIT_A_IO
P30_B12	9C	RECEIVE_B_OUT
P5_10B	10C	P1394_B
P7_17B	11C	SET_UP
P30_A8	12C	SYS_H_PHASE
P30_B7	13C	SYS_SC_CORSE_2
P30_A5	14C	P_SERIAL_OUT
P5_10C	15C	P1394_C
P30_A2	16C	RXD
P30_B1	17C	RTS
P19_23C	18C	RF_EQLD_H
P9_21A	19C	AV_SBC_CLK
P9_22A	20C	AV_SBC_RQ
P9_22C	21C	AV_CS_RECPB_L
COMMON	22C	AV_ADRS10
	23C	AV_ADRS7
	24C	AV_ADRS4
	25C	AV_ADRS1
	26C	AV_IOWR_L
	27C	AV_DATA6
	28C	AV_DATA3
	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P004
VJS2899A096

	1A	GND
P9_18C, P13_19C	2A	REC_FRP
P1_21B	3A	SYS_AB0
P1_22B	4A	SYS_AB3
P1_23B	5A	SYS_AB6
P1_24B	6A	SYS_AB9
P1_25B	7A	SYS_DB1
P1_26B	8A	SYS_DB4
P1_27B	9A	SYS_DB7
P1_28B	10A	SYS_WR_L
P1_29B	11A	SERVO_RESET_L
P2_2B	12A	TAPE_REV_H
P2_3B	13A	CAP_FG1_SYS
P2_22A	14A	LOAD_ERR_SYS
J2 LAND	15A	BACKUP
P8_14B	16A	CHAR_DATA_H
P8_15B	17A	V_SYNC_L
P24_B4	18A	CASSET_INL_H
P24_A6	19A	CASSET2_H
P24_B7	20A	CASSET_UP_L
P24_B8	21A	MECHA_POS1_L
P24_B9	22A	MECHA_POS3_L
P24_B10	23A	CAST_DOWN_L
P24_B11	24A	REEL_POS1_H
P24_A13	25A	TAPE_START_L
P24_B13	26A	TAPE_END_L
P23_7	27A	R_STAND_L2S
P23_8	28A	R_STAND_S2L
	29A	
	30A	
	31A	+16V
	32A	GND

P004
VJS2899A096

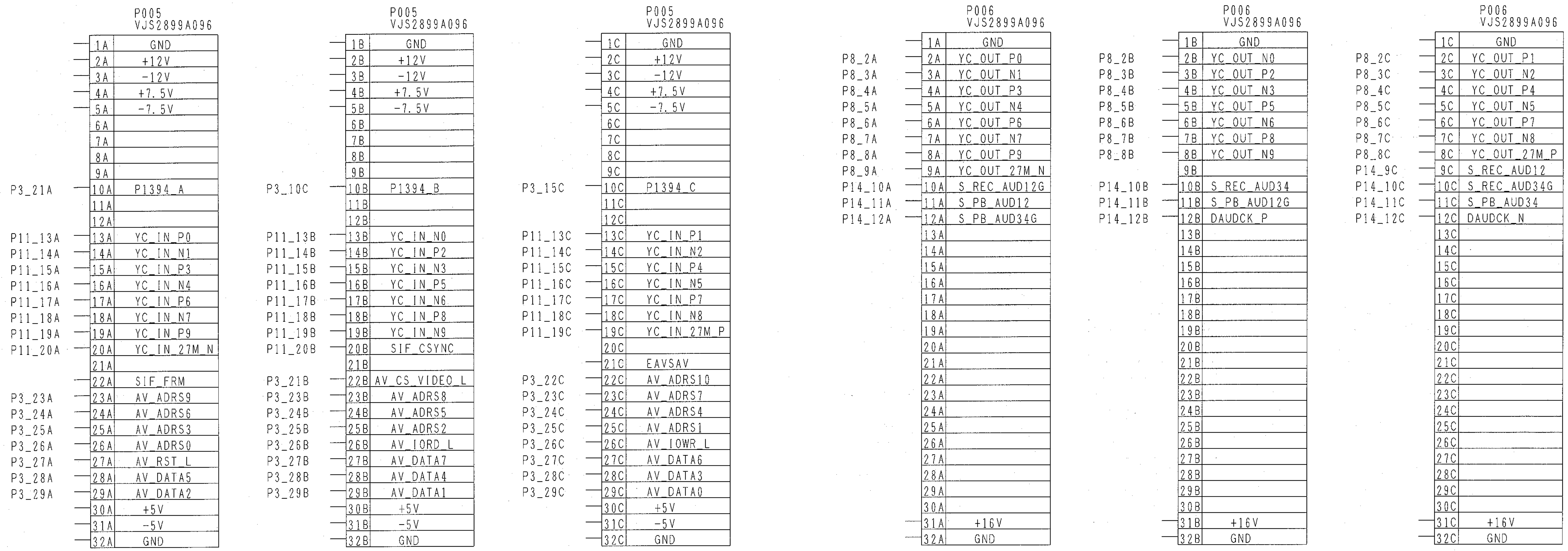
	1B	GND
P9_19A, P1_11A	2B	FP_S0
P1_21C	3B	SYS_AB1
P1_22C	4B	SYS_AB4
P1_23C	5B	SYS_AB7
P1_24C	6B	SYS_AB10
P1_25C	7B	SYS_DB2
P1_26C	8B	SYS_DB5
P1_27C	9B	SERVO_CS_L
P1_28C	10B	SYS_BUSY_L
P1_29C	11B	SYS_SERVO_INT_L
P2_2C	12B	FR_PULSE
P2_3C	13B	S_RL_FG_SYS
P24_3	14B	CASSET_MID_H
	15B	BACKUP
P8_14C	16B	CHAR_GATE_L
P8_15C	17B	COMP_SYNC_L
P24_A5	18B	CASSET1_H
P24_A7	19B	CASSET_DOWN_H
P24_A8	20B	MECHA_POS2_L
P24_A9	21B	SAFETY_TAB
P24_A10	22B	REEL_POS2_H
P24_A11	23B	TAPE_SENSOR_ON
P24_A12	24B	F_LOAD_IN
P24_B12	25B	F_LOAD_OUT
P24_A14	26B	LOADING
P24_B14	27B	UNLOADING
P21_1	28B	FR_SERI0A
P21_3	29B	FR_SERI1A
	30B	
	31B	+16V
	32B	GND

P004
VJS2899A096

	1C	GND
P9_19B, P1_11B	2C	FP_S1
P1_22A	3C	SYS_AB2
P1_23A	4C	SYS_AB5
P1_24A	5C	SYS_AB8
P1_25A	6C	SYS_DB0
P1_26A	7C	SYS_DB3
P1_27A	8C	SYS_DB6
P1_28A	9C	SYS_RD_L
P1_29A	10C	SERVO_INT_L
P2_2A	11C	CTL_PULSE
	12C	
P2_4A	13C	T_RL_FG_SYS
P8_29A	14C	OUT_FRM
	15C	BACKUP
P8_15A	16C	H_SYNC_L
P24_A4	17C	CASSET_INR_H
P24_B5	18C	DEW_ON_H
P24_B6	19C	DEW_GND
P23_9	20C	PINCH_ON
P23_10	21C	PINCH_OFF
P23_11	22C	S_BRAKE_ON
P23_12	23C	S_BRAKE_OFF
P23_13	24C	T_BRAKE_ON
P23_14	25C	T_BRAKE_OFF
P23_15	26C	M_STOPPER_OFF
P23_16	27C	M_STOPPER_ON
P21_2	28C	FR_SERI0B
P21_4	29C	FR_SERI1B
	30C	
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	02/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(2/11)		SCM2

SIF (F3)



P005
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
	6A	
	7A	
	8A	
	9A	
P3_21A	10A	P1394_A
	11A	
	12A	
P11_13A	13A	YC_IN_P0
P11_14A	14A	YC_IN_N1
P11_15A	15A	YC_IN_P3
P11_16A	16A	YC_IN_N4
P11_17A	17A	YC_IN_P6
P11_18A	18A	YC_IN_N7
P11_19A	19A	YC_IN_P9
P11_20A	20A	YC_IN_27M_N
	21A	
	22A	SIF_FRM
P3_23A	23A	AV_ADRS9
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P005
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
	6B	
	7B	
	8B	
	9B	
P3_10C	10B	P1394_B
	11B	
	12B	
P11_13B	13B	YC_IN_N0
P11_14B	14B	YC_IN_P2
P11_15B	15B	YC_IN_N3
P11_16B	16B	YC_IN_P5
P11_17B	17B	YC_IN_N6
P11_18B	18B	YC_IN_P8
P11_19B	19B	YC_IN_N9
P11_20B	20B	SIF_CSYNC
	21B	
P3_21B	22B	AV_CS_VIDEO_L
P3_23B	23B	AV_ADRS8
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P005
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
	6C	
	7C	
	8C	
	9C	
P3_15C	10C	P1394_C
	11C	
	12C	
P11_13C	13C	YC_IN_P1
P11_14C	14C	YC_IN_N2
P11_15C	15C	YC_IN_P4
P11_16C	16C	YC_IN_N5
P11_17C	17C	YC_IN_P7
P11_18C	18C	YC_IN_N8
P11_19C	19C	YC_IN_27M_P
	20C	
	21C	EAVSAV
P3_22C	22C	AV_ADRS10
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P006
VJS2899A096

	1A	GND
P8_2A	2A	YC_OUT_P0
P8_3A	3A	YC_OUT_N1
P8_4A	4A	YC_OUT_P3
P8_5A	5A	YC_OUT_N4
P8_6A	6A	YC_OUT_P6
P8_7A	7A	YC_OUT_N7
P8_8A	8A	YC_OUT_P9
P8_9A	9A	YC_OUT_27M_N
P14_10A	10A	S_REC_AUD12G
P14_11A	11A	S_PB_AUD12
P14_12A	12A	S_PB_AUD34G
	13A	
	14A	
	15A	
	16A	
	17A	
	18A	
	19A	
	20A	
	21A	
	22A	
	23A	
	24A	
	25A	
	26A	
	27A	
	28A	
	29A	
	30A	
	31A	+16V
	32A	GND

P006
VJS2899A096

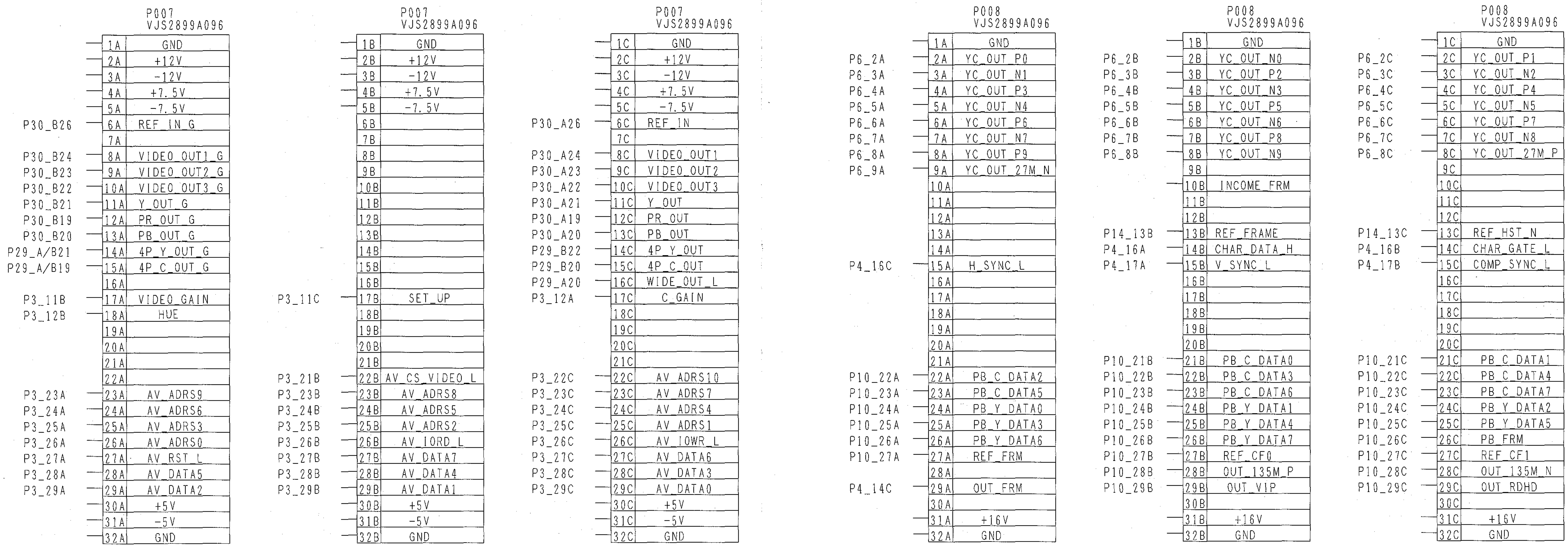
	1B	GND
P8_2B	2B	YC_OUT_N0
P8_3B	3B	YC_OUT_P2
P8_4B	4B	YC_OUT_N3
P8_5B	5B	YC_OUT_P5
P8_6B	6B	YC_OUT_N6
P8_7B	7B	YC_OUT_P8
P8_8B	8B	YC_OUT_N9
	9B	
P14_10B	10B	S_REC_AUD34
P14_11B	11B	S_PB_AUD12G
P14_12B	12B	DAUDCK_P
	13B	
	14B	
	15B	
	16B	
	17B	
	18B	
	19B	
	20B	
	21B	
	22B	
	23B	
	24B	
	25B	
	26B	
	27B	
	28B	
	29B	
	30B	
	31B	+16V
	32B	GND

P006
VJS2899A096

	1C	GND
P8_2C	2C	YC_OUT_P1
P8_3C	3C	YC_OUT_N2
P8_4C	4C	YC_OUT_P4
P8_5C	5C	YC_OUT_N5
P8_6C	6C	YC_OUT_P7
P8_7C	7C	YC_OUT_N8
P8_8C	8C	YC_OUT_27M_P
P14_9C	9C	S_REC_AUD12
P14_10C	10C	S_REC_AUD34G
P14_11C	11C	S_PB_AUD34
P14_12C	12C	DAUDCK_N
	13C	
	14C	
	15C	
	16C	
	17C	
	18C	
	19C	
	20C	
	21C	
	22C	
	23C	
	24C	
	25C	
	26C	
	27C	
	28C	
	29C	
	30C	
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	03/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(3/11)		SCM3

V_OUT (F4)



P007
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
P30_B26	6A	REF_IN_G
	7A	
P30_B24	8A	VIDEO_OUT1_G
P30_B23	9A	VIDEO_OUT2_G
P30_B22	10A	VIDEO_OUT3_G
P30_B21	11A	Y_OUT_G
P30_B19	12A	PR_OUT_G
P30_B20	13A	PB_OUT_G
P29_A/B21	14A	4P_Y_OUT_G
P29_A/B19	15A	4P_C_OUT_G
	16A	
P3_11B	17A	VIDEO_GAIN
P3_12B	18A	HUE
	19A	
	20A	
	21A	
	22A	
P3_23A	23A	AV_ADRS9
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P007
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
	6B	
	7B	
	8B	
	9B	
	10B	
	11B	
	12B	
	13B	
	14B	
	15B	
	16B	
P3_11C	17B	SET_UP
	18B	
	19B	
	20B	
	21B	
P3_21B	22B	AV_CS_VIDEO_L
P3_23B	23B	AV_ADRS8
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P007
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
P30_A26	6C	REF_IN
	7C	
P30_A24	8C	VIDEO_OUT1
P30_A23	9C	VIDEO_OUT2
P30_A22	10C	VIDEO_OUT3
P30_A21	11C	Y_OUT
P30_A19	12C	PR_OUT
P30_A20	13C	PB_OUT
P29_B22	14C	4P_Y_OUT
P29_B20	15C	4P_C_OUT
P29_A20	16C	WIDE_OUT_L
P3_12A	17C	C_GAIN
	18C	
	19C	
	20C	
	21C	
P3_22C	22C	AV_ADRS10
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P008
VJS2899A096

	1A	GND
P6_2A	2A	YC_OUT_P0
P6_3A	3A	YC_OUT_N1
P6_4A	4A	YC_OUT_P3
P6_5A	5A	YC_OUT_N4
P6_6A	6A	YC_OUT_P6
P6_7A	7A	YC_OUT_N7
P6_8A	8A	YC_OUT_P9
P6_9A	9A	YC_OUT_27M_N
	10A	
	11A	
	12A	
	13A	
	14A	
P4_16C	15A	H_SYNC_L
	16A	
	17A	
	18A	
	19A	
	20A	
	21A	
P10_22A	22A	PB_C_DATA2
P10_23A	23A	PB_C_DATA5
P10_24A	24A	PB_Y_DATA0
P10_25A	25A	PB_Y_DATA3
P10_26A	26A	PB_Y_DATA6
P10_27A	27A	REF_FRM
	28A	
P4_14C	29A	OUT_FRM
	30A	
	31A	+16V
	32A	GND

P008
VJS2899A096

	1B	GND
P6_2B	2B	YC_OUT_N0
P6_3B	3B	YC_OUT_P2
P6_4B	4B	YC_OUT_N3
P6_5B	5B	YC_OUT_P5
P6_6B	6B	YC_OUT_N6
P6_7B	7B	YC_OUT_P8
P6_8B	8B	YC_OUT_N9
	9B	
	10B	INCOME_FRM
	11B	
	12B	
P14_13B	13B	REF_FRAME
P4_16A	14B	CHAR_DATA_H
P4_17A	15B	V_SYNC_L
	16B	
	17B	
	18B	
	19B	
	20B	
P10_21B	21B	PB_C_DATA0
P10_22B	22B	PB_C_DATA3
P10_23B	23B	PB_C_DATA6
P10_24B	24B	PB_Y_DATA1
P10_25B	25B	PB_Y_DATA4
P10_26B	26B	PB_Y_DATA7
P10_27B	27B	REF_CF0
P10_28B	28B	OUT_135M_P
P10_29B	29B	OUT_VIP
	30B	
	31B	+16V
	32B	GND

P008
VJS2899A096

	1C	GND
P6_2C	2C	YC_OUT_P1
P6_3C	3C	YC_OUT_N2
P6_4C	4C	YC_OUT_P4
P6_5C	5C	YC_OUT_N5
P6_6C	6C	YC_OUT_P7
P6_7C	7C	YC_OUT_N8
P6_8C	8C	YC_OUT_27M_P
	9C	
	10C	
	11C	
	12C	
P14_13C	13C	REF_HST_N
P4_16B	14C	CHAR_GATE_L
P4_17B	15C	COMP_SYNC_L
	16C	
	17C	
	18C	
	19C	
	20C	
P10_21C	21C	PB_C_DATA1
P10_22C	22C	PB_C_DATA4
P10_23C	23C	PB_C_DATA7
P10_24C	24C	PB_Y_DATA2
P10_25C	25C	PB_Y_DATA5
P10_26C	26C	PB_FRM
P10_27C	27C	REF_CF1
P10_28C	28C	OUT_135M_N
P10_29C	29C	OUT_RDHD
	30C	
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	04/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(4/11)	SCM4	

REC/PB (F5)

P009
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
P20_8A	6A	EE_DATA_P
P20_9B	7A	EE_CLK_N
P20_10C	8A	RECI
P19_11C	9A	PB_DAT_R_P
P19_12C	10A	PB_CLK_R_N
P19_13C	11A	PB_CLK_P_P
	12A	
	13A	
	14A	
P19_17C	15A	EQ_HOLD_H
P19_18C	16A	REC_F_3
	17A	
P1_10A, P14_20B	18A	FEND
P1_11A, P4_2B	19A	FP_S0
P1_12A	20A	PB_SPEED
P3_19C	21A	AV_SBC_CLK
P3_20C	22A	AV_SBC_RQ
P3_11A	23A	FEND_SYS
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P009
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
P20_8B	6B	EE_DATA_N
P20_10A	7B	FECTRL0
P20_11A, P19_11A	8B	RECCTRL_A
P19_12A	9B	PB_DAT_R_N
P19_13A	10B	PB_DAT_P_P
P19_14A	11B	PB_CLK_P_N
	12B	
	13B	
	14B	
	15B	
P19_19A, P20_19A, P1_17A	16B	PB_HSW
	17B	
P1_10B	18B	FLUSH
P1_11B, P4_2C	19B	FP_S1
P1_12B	20B	REC_SPEED
P3_20A	21B	AV_SBC_DAT
P19_19C	22B	PB_FRP
P19_21C	23B	VS_DATA
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P009
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
P20_9A	6C	EE_CLK_P
P20_10B	7C	FECTRL1
P20_11B, P19_11B	8C	RECCTRL_B
P19_12B	9C	PB_CLK_R_P
P19_13B	10C	PB_DAT_P_N
	11C	
	12C	
	13C	
	14C	
	15C	
P1_17B, P19_19B, P20_19B	16C	RP_HSW
	17C	
P4_2A	18C	REC_FRP
P1_11C	19C	REC_HEAD_L
P19_20C	20C	PBH
P3_20B	21C	SBC_AV_DAT
P3_21C	22C	AV_CS_RECPB_L
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P010
VJS2899A096

	1A	GND
P1_13A	2A	PFP0
P1_14A	3A	SLOW_H
P1_15A	4A	TRP0
P1_16A	5A	TSR
P14_6A	6A	18M_CK_P
P12_7A	7A	TBC_RCK_P
P12_8A	8A	TBC_RHRST
P12_9A	9A	INCOME_CF1
P12_10A	10A	REC_C_DATA7
P12_11A	11A	REC_C_DATA4
P12_12A	12A	REC_C_DATA1
P12_13A	13A	REC_Y_DATA6
P12_14A	14A	REC_Y_DATA3
P12_15A	15A	REC_Y_DATA0
P14_16A	16A	FS256_N
P14_17A	17A	FS64_PB
P14_18A	18A	REC_FRM
P14_19A	19A	PB_DATA12
P14_20A	20A	FRM5
	21A	
P8_22A	22A	PB_C_DATA2
P8_23A	23A	PB_C_DATA5
P8_24A	24A	PB_Y_DATA0
P8_25A	25A	PB_Y_DATA3
P8_26A	26A	PB_Y_DATA6
P8_27A	27A	REF_FRM
	28A	
P8_29A	29A	OUT_FRM
P24_B1	30A	CASSET_POS_1
	31A	+16V
	32A	GND

P010
VJS2899A096

	1B	GND
P1_13B	2B	PFP1
P1_14B	3B	SPA
P1_15B	4B	TRP1
P2_2B, P14_5B	5B	TAPE_REV_H
P14_6B	6B	18M_CK_N
P12_7B	7B	TBC_RCK_N
P12_8B	8B	INCOME_FRM
	9B	
P12_10B	10B	REC_C_DATA6
P12_11B	11B	REC_C_DATA3
P12_12B	12B	REC_C_DATA0
P12_13B	13B	REC_Y_DATA5
P12_14B	14B	REC_Y_DATA2
P14_15B	15B	REC_DATA12
P14_16B	16B	FS256_P
	17B	
P14_18B	18B	INH
P14_19B	19B	PB_DATA34
	20B	
P8_21B	21B	PB_C_DATA0
P8_22B	22B	PB_C_DATA3
P8_23B	23B	PB_C_DATA6
P8_24B	24B	PB_Y_DATA1
P8_25B	25B	PB_Y_DATA4
P8_26B	26B	PB_Y_DATA7
P8_27B	27B	REF_CF0
P8_28B	28B	OUT_135M_P
P8_29B	29B	OUT_VIP
P24_A2	30B	CASSET_POS_2
	31B	+16V
	32B	GND

P010
VJS2899A096

	1C	GND
P1_13C	2C	LIN_H
P1_14C	3C	STILL_H
P1_15C	4C	TRP2
P2_2A	5C	CTL_PULSE
P19_22A	6C	VS_CS
P12_7C	7C	TBC_RVRST
P12_8C	8C	INCOME_CF0
P19_21B	9C	VS_CLK
P12_10C	10C	REC_C_DATA5
P12_11C	11C	REC_C_DATA2
P12_12C	12C	REC_Y_DATA7
P12_13C	13C	REC_Y_DATA4
P12_14C	14C	REC_Y_DATA1
P14_15C	15C	REC_DATA34
P14_16C	16C	FS
P14_17C	17C	FS64
P14_18C	18C	FS_P
P14_19C	19C	PB_FRM_A
	20C	
P8_21C	21C	PB_C_DATA1
P8_22C	22C	PB_C_DATA4
P8_23C	23C	PB_C_DATA7
P8_24C	24C	PB_Y_DATA2
P8_25C	25C	PB_Y_DATA5
P8_26C	26C	PB_FRM
P8_27C	27C	REF_CF1
P8_28C	28C	OUT_135M_N
P8_29C	29C	OUT_RDHD
P24_B2	30C	CASSET_POS_3
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	05/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(5/11)		SCM5

VIN (F6)

P011
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
P30_B30	6A	VIDEO_IN_G
P30_B29	7A	Y_IN_G
P30_B28	8A	PB_IN_G
P30_B27	9A	PR_IN_G
P29_A/B25	10A	4P_Y_IN_G
P29_A/B23	11A	4P_C_IN_G
	12A	
P5_13A	13A	YC_IN_P0
P5_14A	14A	YC_IN_N1
P5_15A	15A	YC_IN_P3
P5_16A	16A	YC_IN_N4
P5_17A	17A	YC_IN_P6
P5_18A	18A	YC_IN_N7
P5_19A	19A	YC_IN_P9
P5_20A	20A	YC_IN_27M_N
	21A	
P5_22A	22A	SIF_FRM
P3_23A	23A	AV_ADRS9
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P011
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
	6B	
	7B	
	8B	
	9B	
	10B	
	11B	
	12B	
P5_13B	13B	YC_IN_N0
P5_14B	14B	YC_IN_P2
P5_15B	15B	YC_IN_N3
P5_16B	16B	YC_IN_P5
P5_17B	17B	YC_IN_N6
P5_18B	18B	YC_IN_P8
P5_19B	19B	YC_IN_N9
P5_20B	20B	SIF_CSYNC
	21B	
P3_21B	22B	AV_CS_VIDEO_L
P3_23B	23B	AV_ADRS8
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P011
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
P30_A30	6C	VIDEO_IN
P30_A29	7C	Y_IN
P30_A28	8C	PB_IN
P30_A27	9C	PR_IN
P29_B26	10C	4P_Y_IN
P29_B24	11C	4P_C_IN
P29_A24	12C	WIDE_IN_L
P5_13C	13C	YC_IN_P1
P5_14C	14C	YC_IN_N2
P5_15C	15C	YC_IN_P4
P5_16C	16C	YC_IN_N5
P5_17C	17C	YC_IN_P7
P5_18C	18C	YC_IN_N8
P5_19C	19C	YC_IN_27M_P
	20C	
P5_21C	21C	EAVSAV
P3_22C	22C	AV_ADRS10
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P012
VJS2899A096

	1A	GND
	2A	
	3A	
	4A	
	5A	
	6A	
P10_7A	7A	TBC_RCK_P
P10_8A	8A	TBC_RHRST
P10_9A	9A	INCOME_CF1
P10_10A	10A	REC_C_DATA7
P10_11A	11A	REC_C_DATA4
P10_12A	12A	REC_C_DATA1
P10_13A	13A	REC_Y_DATA6
P10_14A	14A	REC_Y_DATA3
P10_15A	15A	REC_Y_DATA0
P14_13A	16A	INCOM_HST_N
	17A	
	18A	
	19A	
	20A	
	21A	
	22A	
	23A	
	24A	
	25A	
	26A	
	27A	
	28A	
	29A	
	30A	
	31A	+16V
	32A	GND

P012
VJS2899A096

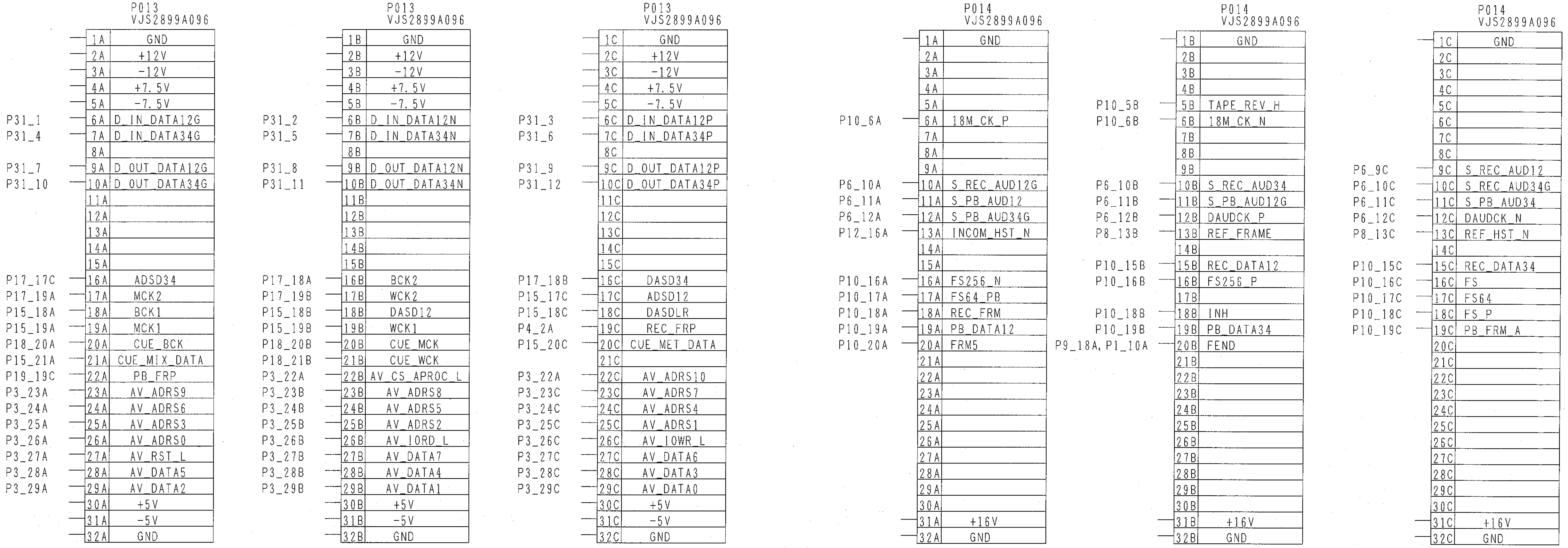
	1B	GND
	2B	
	3B	
	4B	
	5B	
	6B	
P10_7B	7B	TBC_RCK_N
P10_8B	8B	INCOME_FRM
	9B	
P10_10B	10B	REC_C_DATA6
P10_11B	11B	REC_C_DATA3
P10_12B	12B	REC_C_DATA0
P10_13B	13B	REC_Y_DATA5
P10_14B	14B	REC_Y_DATA2
	15B	
	16B	
	17B	
	18B	
	19B	
	20B	
	21B	
	22B	
	23B	
	24B	
	25B	
	26B	
	27B	
	28B	
	29B	
	30B	
	31B	+16V
	32B	GND

P012
VJS2899A096

	1C	GND
	2C	
	3C	
	4C	
	5C	
	6C	
P10_7C	7C	TBC_RVRST
P10_8C	8C	INCOME_CF0
	9C	
P10_10C	10C	REC_C_DATA5
P10_11C	11C	REC_C_DATA2
P10_12C	12C	REC_Y_DATA7
P10_13C	13C	REC_Y_DATA4
P10_14C	14C	REC_Y_DATA1
	15C	
	16C	
	17C	
	18C	
	19C	
	20C	
	21C	
P3_19B	22C	DEC_DAT
	23C	
	24C	
	25C	
	26C	
	27C	
	28C	
	29C	
	30C	
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	06/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(6/11)		SCM6

A_PROC (F7)



P013
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
P31_1	6A	D_IN_DATA12G
P31_4	7A	D_IN_DATA34G
	8A	
P31_7	9A	D_OUT_DATA12G
P31_10	10A	D_OUT_DATA34G
	11A	
	12A	
	13A	
	14A	
	15A	
P17_17C	16A	ADSD34
P17_19A	17A	MCK2
P15_18A	18A	BCK1
P15_19A	19A	MCK1
P18_20A	20A	CUE_BCK
P15_21A	21A	CUE_MIX_DATA
P19_19C	22A	PB_FRP
P3_23A	23A	AV_ADRS9
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P013
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
P31_2	6B	D_IN_DATA12N
P31_5	7B	D_IN_DATA34N
	8B	
P31_8	9B	D_OUT_DATA12N
P31_11	10B	D_OUT_DATA34N
	11B	
	12B	
	13B	
	14B	
	15B	
P17_18A	16B	BCK2
P17_19B	17B	WCK2
P15_18B	18B	DASD12
P15_19B	19B	WCK1
P18_20B	20B	CUE_MCK
P18_21B	21B	CUE_WCK
P3_22A	22B	AV_CS_APROC_L
P3_23B	23B	AV_ADRS8
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P013
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
P31_3	6C	D_IN_DATA12P
P31_6	7C	D_IN_DATA34P
	8C	
P31_9	9C	D_OUT_DATA12P
P31_12	10C	D_OUT_DATA34P
	11C	
	12C	
	13C	
	14C	
	15C	
P17_18B	16C	DASD34
P15_17C	17C	ADSD12
P15_18C	18C	DASDLR
P4_2A	19C	REC_FRP
P15_20C	20C	CUE_MET_DATA
	21C	
P3_22A	22C	AV_ADRS10
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P014
VJS2899A096

	1A	GND
	2A	
	3A	
	4A	
	5A	
P10_6A	6A	18M_CK_P
	7A	
	8A	
	9A	
P6_10A	10A	S_REC_AUD12G
P6_11A	11A	S_PB_AUD12
P6_12A	12A	S_PB_AUD34G
P12_16A	13A	INCOM_HST_N
	14A	
	15A	
P10_16A	16A	FS256_N
P10_17A	17A	FS64_PB
P10_18A	18A	REC_FRM
P10_19A	19A	PB_DATA12
P10_20A	20A	FRM5
	21A	
	22A	
	23A	
	24A	
	25A	
	26A	
	27A	
	28A	
	29A	
	30A	
	31A	+16V
	32A	GND

P014
VJS2899A096

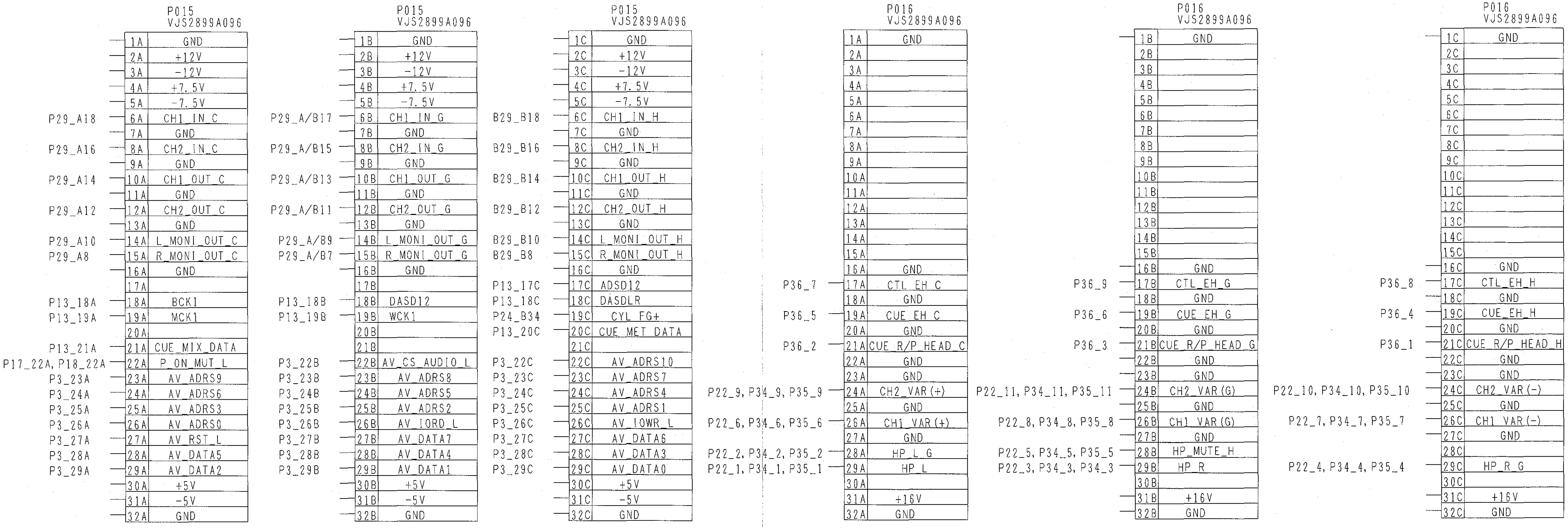
	1B	GND
	2B	
	3B	
	4B	
P10_5B	5B	TAPE_REV_H
P10_6B	6B	18M_CK_N
	7B	
	8B	
	9B	
P6_10B	10B	S_REC_AUD34
P6_11B	11B	S_PB_AUD12G
P6_12B	12B	DAUDCK_P
P8_13B	13B	REF_FRAME
	14B	
P10_15B	15B	REC_DATA12
P10_16B	16B	FS256_P
	17B	
P10_18B	18B	INH
P10_19B	19B	PB_DATA34
P9_18A, P1_10A	20B	FEND
	21B	
	22B	
	23B	
	24B	
	25B	
	26B	
	27B	
	28B	
	29B	
	30B	
	31B	+16V
	32B	GND

P014
VJS2899A096

	1C	GND
	2C	
	3C	
	4C	
	5C	
	6C	
	7C	
	8C	
P6_9C	9C	S_REC_AUD12
P6_10C	10C	S_REC_AUD34G
P6_11C	11C	S_PB_AUD34
P6_12C	12C	DAUDCK_N
P8_13C	13C	REF_HST_N
	14C	
P10_15C	15C	REC_DATA34
P10_16C	16C	FS
P10_17C	17C	FS64
P10_18C	18C	FS_P
P10_19C	19C	PB_FRM_A
	20C	
	21C	
	22C	
	23C	
	24C	
	25C	
	26C	
	27C	
	28C	
	29C	
	30C	
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	07/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(7/11)		SCM7

ADDA_1 (F8)



P015
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
P29_A18	6A	CH1_IN_C
	7A	GND
P29_A16	8A	CH2_IN_C
	9A	GND
P29_A14	10A	CH1_OUT_C
	11A	GND
P29_A12	12A	CH2_OUT_C
	13A	GND
P29_A10	14A	L_MONI_OUT_C
P29_A8	15A	R_MONI_OUT_C
	16A	GND
	17A	
P13_18A	18A	BCK1
P13_19A	19A	MCK1
	20A	
P13_21A	21A	CUE_MIX_DATA
P17_22A, P18_22A	22A	P_ON_MUT_L
P3_23A	23A	AV_ADRS9
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P015
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
P29_A/B17	6B	CH1_IN_G
	7B	GND
P29_A/B15	8B	CH2_IN_G
	9B	GND
P29_A/B13	10B	CH1_OUT_G
	11B	GND
P29_A/B11	12B	CH2_OUT_G
	13B	GND
P29_A/B9	14B	L_MONI_OUT_G
P29_A/B7	15B	R_MONI_OUT_G
	16B	GND
	17B	
P13_18B	18B	DASD12
P13_19B	19B	WCK1
	20B	
	21B	
P3_22B	22B	AV_CS_AUDIO_L
P3_23B	23B	AV_ADRS8
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P015
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
B29_B18	6C	CH1_IN_H
	7C	GND
B29_B16	8C	CH2_IN_H
	9C	GND
B29_B14	10C	CH1_OUT_H
	11C	GND
B29_B12	12C	CH2_OUT_H
	13C	GND
B29_B10	14C	L_MONI_OUT_H
B29_B8	15C	R_MONI_OUT_H
	16C	GND
P13_17C	17C	ADSD12
P13_18C	18C	DASDLR
P24_B34	19C	CYL_FG+
P13_20C	20C	CUE_MET_DATA
	21C	
P3_22C	22C	AV_ADRS10
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

P016
VJS2899A096

	1A	GND
	2A	
	3A	
	4A	
	5A	
	6A	
	7A	
	8A	
	9A	
	10A	
	11A	
	12A	
	13A	
	14A	
	15A	
	16A	GND
P36_7	17A	CTL_EH_C
	18A	GND
P36_5	19A	CUE_EH_C
	20A	GND
P36_2	21A	CUE_R/P_HEAD_C
	22A	GND
	23A	GND
P22_9, P34_9, P35_9	24A	CH2_VAR(+)
	25A	GND
P22_6, P34_6, P35_6	26A	CH1_VAR(+)
	27A	GND
P22_2, P34_2, P35_2	28A	HP_L_G
P22_1, P34_1, P35_1	29A	HP_L
	30A	
	31A	+16V
	32A	GND

P016
VJS2899A096

	1B	GND
	2B	
	3B	
	4B	
	5B	
	6B	
	7B	
	8B	
	9B	
	10B	
	11B	
	12B	
	13B	
	14B	
	15B	
	16B	GND
P36_9	17B	CTL_EH_G
	18B	GND
P36_6	19B	CUE_EH_G
	20B	GND
P36_3	21B	CUE_R/P_HEAD_G
	22B	GND
	23B	GND
P22_11, P34_11, P35_11	24B	CH2_VAR(G)
	25B	GND
P22_8, P34_8, P35_8	26B	CH1_VAR(G)
	27B	GND
P22_5, P34_5, P35_5	28B	HP_MUTE_H
P22_3, P34_3, P34_3	29B	HP_R
	30B	
	31B	+16V
	32B	GND

P016
VJS2899A096

	1C	GND
	2C	
	3C	
	4C	
	5C	
	6C	
	7C	
	8C	
	9C	
	10C	
	11C	
	12C	
	13C	
	14C	
	15C	
	16C	GND
P36_8	17C	CTL_EH_H
	18C	GND
P36_4	19C	CUE_EH_H
	20C	GND
P36_1	21C	CUE_R/P_HEAD_H
	22C	GND
	23C	GND
P22_10, P34_10, P35_10	24C	CH2_VAR(-)
	25C	GND
P22_7, P34_7, P35_7	26C	CH1_VAR(-)
	27C	GND
	28C	
P22_4, P34_4, P35_4	29C	HP_R_G
	30C	
	31C	+16V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	08/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(8/11)		SCM8

ADDA_2 (H1)

P017
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
	6A	
	7A	GND
	8A	
	9A	GND
	10A	
	11A	GND
	12A	
	13A	GND
	14A	
	15A	
	16A	
	17A	
P13_16B	18A	BCK2
P13_17A	19A	MCK2
	20A	
	21A	
P18_22A, P15_22A	22A	P_ON_MUT_L
P3_23A	23A	AV_ADRS9
P3_24A	24A	AV_ADRS6
P3_25A	25A	AV_ADRS3
P3_26A	26A	AV_ADRS0
P3_27A	27A	AV_RST_L
P3_28A	28A	AV_DATA5
P3_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P017
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
	6B	
	7B	GND
	8B	
	9B	GND
	10B	
	11B	GND
	12B	
	13B	GND
	14B	
	15B	
	16B	
	17B	
P13_16C	18B	DASD34
P13_17B	19B	WCK2
	20B	
	21B	
P3_22B	22B	AV_CS_AUDIO_L
P3_23B	23B	AV_ADRS8
P3_24B	24B	AV_ADRS5
P3_25B	25B	AV_ADRS2
P3_26B	26B	AV_IORD_L
P3_27B	27B	AV_DATA7
P3_28B	28B	AV_DATA4
P3_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P017
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
	6C	
	7C	GND
	8C	
	9C	GND
	10C	
	11C	GND
	12C	
	13C	GND
	14C	
	15C	
	16C	
P13_16A	17C	ADSD34
	18C	
	19C	
	20C	
	21C	
P3_22C	22C	AV_ADRS10
P3_23C	23C	AV_ADRS7
P3_24C	24C	AV_ADRS4
P3_25C	25C	AV_ADRS1
P3_26C	26C	AV_IOWR_L
P3_27C	27C	AV_DATA6
P3_28C	28C	AV_DATA3
P3_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

CUE (H2)

P018
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
P29_A30	6A	CUE_IN_C
	7A	GND
P29_A28	8A	CUE_OUT_C
	9A	GND
	10A	
	11A	
	12A	
	13A	
	14A	
	15A	
	16A	
	17A	
	18A	
	19A	
P13_20A	20A	CUE_BCK
P13_21A	21A	CUE_MIX_DATA
P15/17_22A	22A	P_ON_MUT_L
P15/17_23A	23A	AV_ADRS9
P15/17_24A	24A	AV_ADRS6
P15/17_25A	25A	AV_ADRS3
P15/17_26A	26A	AV_ADRS0
P15/17_27A	27A	AV_RST_L
P15/17_28A	28A	AV_DATA5
P15/17_29A	29A	AV_DATA2
	30A	+5V
	31A	-5V
	32A	GND

P018
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
P29_A/B29	6B	CUE_IN_G
	7B	GND
P29_A/B27	8B	CUE_OUT_G
	9B	GND
	10B	
	11B	
	12B	
	13B	
	14B	
	15B	
	16B	
	17B	
	18B	
	19B	
P13_20B	20B	CUE_MCK
P13_21B	21B	CUE_WCK
P15/17_22B	22B	AV_CS_AUDIO_L
P15/17_23B	23B	AV_ADRS8
P15/17_24B	24B	AV_ADRS5
P15/17_25B	25B	AV_ADRS2
P15/17_26B	26B	AV_IORD_L
P15/17_27B	27B	AV_DATA7
P15/17_28B	28B	AV_DATA4
P15/17_29B	29B	AV_DATA1
	30B	+5V
	31B	-5V
	32B	GND

P018
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
P29_B30	6C	CUE_IN_H
	7C	GND
P29_B28	8C	CUE_OUT_H
	9C	GND
	10C	
	11C	
	12C	
	13C	
	14C	
	15C	
	16C	
	17C	
P24_B34	18C	CYL_FG+
	19C	
P13_20C	20C	CUE_MET_DATA
	21C	
P5/17_22C	22C	AV_ADRS10
P5/17_23C	23C	AV_ADRS7
P5/17_24C	24C	AV_ADRS4
P5/17_25C	25C	AV_ADRS1
P5/17_26C	26C	AV_IOWR_L
P5/17_27C	27C	AV_DATA6
P5/17_28C	28C	AV_DATA3
P5/17_29C	29C	AV_DATA0
	30C	+5V
	31C	-5V
	32C	GND

COMPONENT NAME	MOTHER CIRCUIT	09/11
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A11A		
KR0F01(9/11)		SCM9

EQ (H3)

P019
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
	6A	GND
P1_6B	7A	RTV_SPD_PB
P1_7B	8A	REF_CLK
P1_8A	9A	ATF_P
	10A	GND
P9_8B, P20_11A	11A	RECCTRL_A
P9_9B	12A	PB_DAT_R_N
P9_10B	13A	PB_DAT_P_P
P9_11B	14A	PB_CLK_P_N
	15A	
	16A	
	17A	
	18A	
P9_16C, P20_19A, P1_17B	19A	RP_HSW
P1_16C	20A	REC_ENV
	21A	
P10_6C	22A	VS_CS
P3_18A, P20_23A	23A	RF_CLK
	24A	
	25A	GND
P20_26A	26A	PB_OUT_P
	27A	GND
P20_28A	28A	RP_OUT_P
	29A	GND
	30A	+5V
	31A	-5V
	32A	GND

P019
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
	6B	GND
P1_6C	7B	RTV_SPD_RP
	8B	GND
P1_8B	9B	ATF_R
	10B	GND
P9_8C, P20_11B	11B	RECCTRL_B
P9_9C	12B	PB_CLK_R_P
P9_10C	13B	PB_DAT_P_N
	14B	
	15B	
	16B	
	17B	
	18B	
P9_16B, P20_19B, P1_17A	19B	PB_HSW
P1_16B	20B	PB_ENV
P10_9C	21B	VS_CLK
	22B	
P3_18B, P20_23B	23B	RF_DATA
	24B	
	25B	GND
P20_26B	26B	PB_OUT_N
	27B	GND
P20_28B	28B	RP_OUT_N
	29B	GND
	30B	+5V
	31B	-5V
	32B	GND

P019
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
	6C	GND
	7C	GND
	8C	GND
	9C	GND
	10C	GND
P9_9A	11C	PB_DAT_R_P
P9_10A	12C	PB_CLK_R_N
P9_11A	13C	PB_CLK_P_P
	14C	
	15C	
	16C	
P9_15A	17C	EQ_HOLD_H
P9_16A	18C	REC_F_3
P13_22A	19C	PB_FRP
P9_20C, P20_20C	20C	PBH
P9_23B	21C	VS_DATA
	22C	
P3_18C, P20_23C	23C	RF_EQLD_H
	24C	
	25C	GND
P20_26C	26C	PB_OUT_G
	27C	GND
P20_28C	28C	RP_OUT_G
	29C	GND
	30C	+5V
	31C	-5V
	32C	GND

RF_AMP (H4)

P020
VJS2899A096

	1A	GND
	2A	+12V
	3A	-12V
	4A	+7.5V
	5A	-7.5V
	6A	GND
	7A	
P9_6A	8A	EE_DATA_P
P9_6C	9A	EE_CLK_P
P9_7B	10A	FECTRL0
P9_8B	11A	RECCTRL_A
P33_A9	12A	A_REC
	13A	GND
	14A	GND
	15A	GND
	16A	GND
	17A	
	18A	
P9_16C, P19_19A, P1_17B	19A	RP_HSW
P1_16C	20A	REC_ENV
	21A	GND
	22A	GND
P3_18A, P19_23A	23A	RF_CLK
P3_19A	24A	RF_HALD_H
P33_A26	25A	PB_PRE_G
P19_26A	26A	PB_OUT_P
P33_A24	27A	RP_PRE_G
P19_28A	28A	RP_OUT_P
	29A	GND
	30A	+5V
	31A	-5V
	32A	GND

P020
VJS2899A096

	1B	GND
	2B	+12V
	3B	-12V
	4B	+7.5V
	5B	-7.5V
	6B	GND
P33_A7	7B	RE_A_CURR
P9_6B	8B	EE_DATA_N
P9_7A	9B	EE_CLK_N
P9_7C	10B	FECTRL1
P9_8C	11B	RECCTRL_B
P33_B9	12B	B_REC
P33_A11	13B	RESET
P33_A13	14B	RECDATA_P
P33_A17	15B	REC_A_CURR
P33_A18	16B	REC_A_FREQ
P33_A20	17B	RP_A
P33_A21	18B	PB_A
P9_16B, P19_19B, P1_17A	19B	PB_HSW
	20B	PB_ENV
	21B	GND
	22B	GND
P3_18B, P19_23B	23B	RF_DATA
	24B	GND
P33_A25	25B	PB_PRE_P
P19_26B	26B	PB_OUT_N
P33_A23	27B	RP_PRE_P
	28B	RP_OUT_N
	29B	GND
	30B	+5V
	31B	-5V
	32B	GND

P020
VJS2899A096

	1C	GND
	2C	+12V
	3C	-12V
	4C	+7.5V
	5C	-7.5V
	6C	GND
P33_B7	7C	RE_B_CURR
	8C	GND
	9C	GND
P9_8A	10C	RECI
	11C	
P33_A10	12C	RECA
P33_B11	13C	REC_TESTMOD
P33_B13	14C	RECDATA_N
P33_B17	15C	REC_B_CURR
P33_B18	16C	REC_B_FREQ
P33_B20	17C	RP_B
P33_B21	18C	PB_B
P1_17C	19C	RE_HSW
P9_20C, P19_20C	20C	PBH
	21C	GND
	22C	GND
	23C	GND
	24C	GND
B33_B25	25C	PB_PRE_N
P19_26C	26C	PB_OUT_G
P33_B23	27C	RP_PRE_N
P19_28C	28C	RP_OUT_G
	29C	GND
	30C	+5V
	31C	-5V
	32C	GND

HEAD_BUFFER

P033 VJP3375A060

	A	NO	B	
	GND	1	GND	
	GND	2	GND	
	+12V	3	+12V	
	+7.5V	4	+7.5V	
	-7.5V	5	-7.5V	
	GND	6	GND	
P20_7B	RE_A_CURR	7	RE_B_CURR	P20_7C
P20_10A	FECTRL0	8	FECTRL1	P20_10B
P20_12A	A_REC	9	B_REC	P20_12B
P20_12C	RECA	10		
P20_13B	RESET	11	REC_TESTMOD	P20_13C
	GND	12	GND	
P20_14B	RECDATA_P	13	RECDATA_N	P20_14C
	GND	14	GND	
	GND	15	GND	
	GND	16	GND	
P20_15B	REC_A_CURR	17	REC_B_CURR	P20_15C
P20_16B	REC_A_FREQ	18	REC_B_FREQ	P20_16C
	GND	19	GND	
P20_17B	RP_A	20	RP_B	P20_17C
P20_18B	PB_A	21	PB_B	P20_18C
	GND	22	GND	
P20_27B	RP_PRE_P	23	RP_PRE_N	P20_27C
P20_27A	RP_PRE_G	24	RP_PRE_G	
P20_25B	PB_PRE_P	25	PB_PRE_N	P20_25C
P20_25A	PB_PRE_G	26	PB_PRE_G	
J7 LAND	+5V	27	+5V	
	-5V	28	-5V	
	GND	29	GND	
	GND	30	GND	

COMPONENT NAME	MOTHER CIRCUIT	10/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(10/11)	SCM10	

TO V/S_JACK

P030 VJS3375B060

	A	NO	B	
P3_17B	CTS	1	RTS	P3_17C
P3_16C	RXD	2	TXD	P3_17A
P3_16A	DSR	3	DTR	P3_16B
P3_15B	STB_CLK16	4		
P3_14C	P_SERIAL_OUT	5	SERIAL_CLK	P3_15A
P3_14A	RET_GND	6	P_SERIAL_IN	P3_14B
P3_13B	SYS_SC_CORSE_1	7	SYS_SC_CORSE_2	P3_13C
P3_12C	SYS_H_PHASE	8	SYS_SC_PHASE	P3_13A
P3_12A	C_GAIN	9	HUE	P3_12B
P3_11B	VIDEO_GAIN	10	SET_UP	P3_11C
	+5V	11	GND	
P3_10A	TRANSMIT_A_OUT	12	TRANSMIT_B_OUT	P3_10B
P3_9B	RECEIVE_A_OUT	13	RECEIVE_B_OUT	P3_9C
P3_8C	TRANSMIT_A_IO	14	TRANSMIT_B_IO	P3_9A
P3_8A	RECEIVE_A_IO	15	RECEIVE_B_IO	P3_8B
	+5V	16	GND	
	-12V	17	-12V	
	+12V	18	+12V	
P7_12C	PR_OUT	19	PR_OUT_G	P7_12A
P7_13C	PB_OUT	20	PB_OUT_G	P7_13A
P7_11C	Y_OUT	21	Y_OUT_G	P7_11A
P7_10C	VIDEO_OUT3	22	VIDEO_OUT3_G	P7_10A
P7_9C	VIDEO_OUT2	23	VIDEO_OUT2_G	P7_9A
P7_8C	VIDEO_OUT1	24	VIDEO_OUT1_G	P7_8A
	GND	25	GND	
P7_6C	REF_IN	26	REF_IN_G	P7_6A
P11_9C	PR_IN	27	PR_IN_G	P11_9A
P11_8C	PB_IN	28	PB_IN_G	P11_8A
P11_7C	Y_IN	29	Y_IN_G	P11_7A
P11_6C	VIDEO_IN	30	VIDEO_IN_G	P11_6A

TO A_JACK

P029 VJS3375B060

	A	NO	B	
	+12V	1	+12V	
	-12V	2	-12V	
	GND	3	GND	
P3_7A	TC_OUT_C	4	TC_OUT_H	P3_6C
	GND	5	GND	
P3_6B	TC_IN_C	6	TC_IN_H	P3_6A
P15_15B	R_MONI_OUT_G	7	R_MONI_OUT_G	
P15_15A	R_MONI_OUT_C	8	R_MONI_OUT_H	P15_15C
P15_14B	L_MONI_OUT_G	9	L_MONI_OUT_G	
P15_14A	L_MONI_OUT_C	10	L_MONI_OUT_H	P15_14C
P15_12B	CH2_OUT_G	11	CH2_OUT_G	
P15_12A	CH2_OUT_C	12	CH2_OUT_H	P15_12C
P15_10B	CH1_OUT_G	13	CH1_OUT_G	
P15_10A	CH1_OUT_C	14	CH1_OUT_H	P15_10C
P15_8B	CH2_IN_G	15	CH2_IN_G	
P15_8A	CH2_IN_C	16	CH2_IN_H	P15_8C
P15_6B	CH1_IN_G	17	CH1_IN_G	
P15_6A	CH1_IN_C	18	CH1_IN_H	P15_6C
	4P_C_OUT_G	19	4P_C_OUT_G	P7_15A
P13_14A	WIDE_OUT_L	20	4P_C_OUT	P7_15C
	4P_Y_OUT_G	21	4P_Y_OUT_G	P7_14A
		22	4P_Y_OUT	P7_14C
	4P_C_IN_G	23	4P_C_IN_G	P11_11A
P11_12C	WIDE_IN_L	24	4P_C_IN	P11_11C
	4P_Y_IN_G	25	4P_Y_IN_G	P11_10A
		26	4P_Y_IN	P11_10C
	CUE_OUT_G	27	CUE_OUT_G	P18_8B
P18_8A	CUE_OUT_C	28	CUE_OUT_H	P18_8C
	CUE_IN_G	29	CUE_IN_G	P18_6B
P18_6A	CUE_IN_C	30	CUE_IN_H	P18_6C

TO M_IF

P023 VJP2891A030

	1	GND
	2	GND
	3	GND
	4	+12V
	5	-12V
	6	+5V
P4_27A	7	R_STAND_L2S
P4_28A	8	R_STAND_S2L
P4_20C	9	PINCH_ON
P4_21C	10	PINCH_OFF
P4_22C	11	S_BRAKE_ON
P4_23C	12	S_BRAKE_OFF
P4_24C	13	T_BRAKE_ON
P4_25C	14	T_BRAKE_OFF
P4_26C	15	M_STOPPER_OFF
P4_27C	16	M_STOPPER_ON
P2_23C	17	TRM1
P2_24C	18	TRM2
P2_23B	19	TRM3
P2_25C	20	SRM1
P2_26C	21	SRM2
P2_25B	22	SRM3
P2_27C	23	CAM1
P2_28C	24	CAM2
P2_27B	25	CAM3
P2_29C	26	CYL_M1
P2_30C	27	CYL_M2
P2_29B	28	CYL_M3
P1_18A	29	LOAD_FG
P2_6B	30	CLE_ON_H

TO M_IF

P024 VJP3418A080

	A	NO	B	
P2_6C	CHECK_LINE_2	1	CASSET_POS_1	P10_30A
P10_30B	CASSET_POS_2	2	CASSET_POS_3	P10_30C
P4_14B	CASSET_MID_H	3	GND	
P4_17C	CASSET_INR_H	4	CASSET_INL_H	P4_18A
P4_18B	CASSET1_H	5	DEW_ON_H	P4_18C
P4_19A	CASSET2_H	6	DEW_GND	P4_19C
P4_19B	CASSET_DOWN_H	7	CASSET_UP_L	P4_20A
P4_20B	MECHA_POS2_L	8	MECHA_POS1_L	P4_21A
P4_21B	SAFETY_TAB	9	MECHA_POS3_L	P4_22A
P4_22B	REEL_POS2_H	10	CAST_DOWN_L	P4_23A
P4_23B	TAPE_SENSOR_ON	11	REEL_POS1_H	P4_24A
P4_24B	F_LOAD_IN	12	F_LOAD_OUT	P4_25B
P4_25A	TAPE_START_L	13	TAPE_END_L	P4_26A
P4_26B	LOADING	14	UNLOADING	P4_27B
P2_7A	TENSION	15	TENS_GND	P2_7B
P2_7C	CYLH_V+	16	CYLH_V-	P2_8A
P2_4C	CYLH1+	17	CYLH1-	P2_4B
P2_5B	CYLH2+	18	CYLH2-	P2_5A
P2_6A	CYLH3+	19	CYLH3-	P2_5C
P2_9B	TRH_V+	20	TRH_V-	P2_9C
P2_10A	TRH1+	21	TRH1-	P2_10B
P2_10C	TRH2+	22	TRH2-	P2_11A
P2_11B	TRH3+	23	TRH3-	P2_11C
P2_12A	SRH_V+	24	SRH_V-	P2_12B
P2_12C	SRH1+	25	SRH1-	P2_13A
P2_13B	SRH2+	26	SRH2-	P2_13C
P2_14A	SRH3+	27	SRH3-	P2_14B
P2_14C	CAH_V+	28	CAH_V-	P2_15A
P2_15B	CAH1+	29	CAH1-	P2_15C
P2_16A	CAH2+	30	CAH2-	P2_16B
P2_16C	CAH3+	31	CAH3-	P2_17A
P2_17B	CAP_FG_VCC	32	CAP_FG_GND	P2_17C
P2_18A	CAP_FG1_M	33	CAP_FG2_M	P2_18B
P2_18C	CYL_PG+	34	CYL_FG+	P2_19A
P2_19B	T_FG_V	35	T_FG_GND	P2_19C
P2_20A	T_FG1_M	36	T_FG2_M	P2_20B
P2_20C	S_FG_V	37	S_FG_GND	P2_21A
P2_21B	S_FG1_M	38	S_FG2_M	P2_21C
P2_22B	CYL_PF_GND	39	CTL_GND	P2_8C
P2_8B	CTL_REC_CURR	40	CTL_PRE	P2_9A

TO POWER

P027 VJP2824B008

1	-7.5V
2	+7.5V
3	-12V
4	+12V
5	GND
6	GND
7	GND
8	GND

P026 VJP2824B006

1	GND
2	GND
3	GND
4	-5V
5	+5V
6	+5V

P025 VJP2824B003

P3_7B	1	FAN_PULSE1
J8 LAND	2	GND_M
	3	+16V

TO FAN_MOTOR

P032 VJP1230T

	1	+12V
P3_7C	2	FAN_PULSE2
	3	GND

TO AC_HEAD_I/F

P036 IL-S_AN

P16_21C	1	CUE_R/P_HEAD_H
P16_21A	2	CUE_R/P_HEAD_C
P16_21B	3	CUE_R/P_HEAD_G
P16_19C	4	CUE_EH_H
P16_19A	5	CUE_EH_C
P16_19B	6	CUE_EH_G
P16_17A	7	CTL_EH_C
P16_17C	8	CTL_EH_H
P16_17B	9	CTL_EH_G
	10	

TO FRONT

P021 IL-S_AN

P4_28B	1	FR_SERI0A
P4_28C	2	FR_SERI0B
P4_29B	3	FR_SERI1A
P4_29C	4	FR_SERI1B
J3 LAND	5	+5V
	6	+5V
J4 LAND	7	+5V
J5 LAND	8	+5V
	9	GND
	10	GND
	11	GND
	12	GND
	13	GND
	14	-12V
	15	+12V

TO FRONT

P022 IL-S_AN

P16_29A, P34_1, P35_1	1	HP_L
P16_28A, P34_2, P35_2	2	HP_L_G
P16_29B, P34_3, P35_3	3	HP_R
P16_29C, P34_4, P35_4	4	HP_R_G
P16_28B, P34_5, P35_5	5	HP_MUTE_H
P16_26A, P34_6, P35_6	6	CH1_VAR(+)
P16_26C, P34_7, P35_7	7	CH1_VAR(-)
P16_26B, P34_8, P35_8	8	CH1_VAR(G)
P16_24A, P34_9, P35_9	9	CH2_VAR(+)
P16_24C, P34_10, P35_10	10	CH2_VAR(-)
P16_24B, P34_11, P35_11	11	CH2_VAR(G)

P034 IL-S_ST

P16_29A, P22_1, P35_1	1	HP_L
P16_28A, P22_2, P35_2	2	HP_L_G
P16_29B, P22_3, P35_3	3	HP_R
P16_29C, P22_4, P35_4	4	HP_R_G
P16_28B, P22_5, P35_5	5	HP_MUTE_H
P16_26A, P22_6, P35_6	6	CH1_VAR(+)
P16_26C, P22_7, P35_7	7	CH1_VAR(-)
P16_26B, P22_8, P35_8	8	CH1_VAR(G)
P16_24A, P22_9, P35_9	9	CH2_VAR(+)
P16_24C, P22_10, P35_10	10	CH2_VAR(-)
P16_24B, P22_11, P35_11	11	CH2_VAR(G)

P035 IL-S_ST

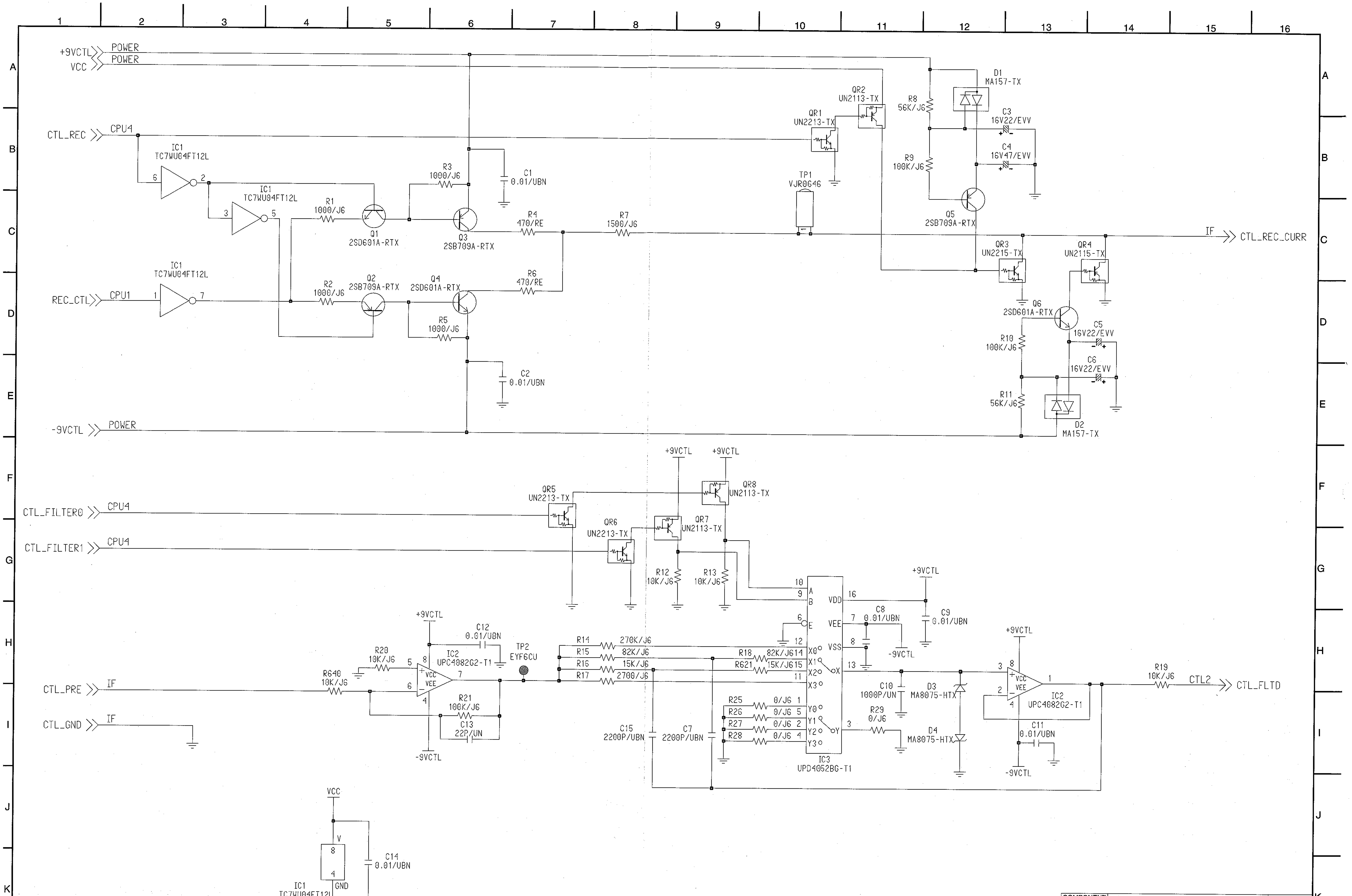
P16_29A, P22_1, P34_1	1	HP_L
P16_28A, P22_2, P34_2	2	HP_L_G
P16_29B, P22_3, P34_3	3	HP_R
P16_29C, P22_4, P34_4	4	HP_R_G
P16_28B, P22_5, P34_5	5	HP_MUTE_H
P16_26A, P22_6, P34_6	6	CH1_VAR(+)
P16_26C, P22_7, P34_7	7	CH1_VAR(-)
P16_26B, P22_8, P34_8	8	CH1_VAR(G)
P16_24A, P22_9, P34_9	9	CH2_VAR(+)
P16_24C, P22_10, P34_10	10	CH2_VAR(-)
P16_24B, P22_11, P34_11	11	CH2_VAR(G)

TO AES/EBU

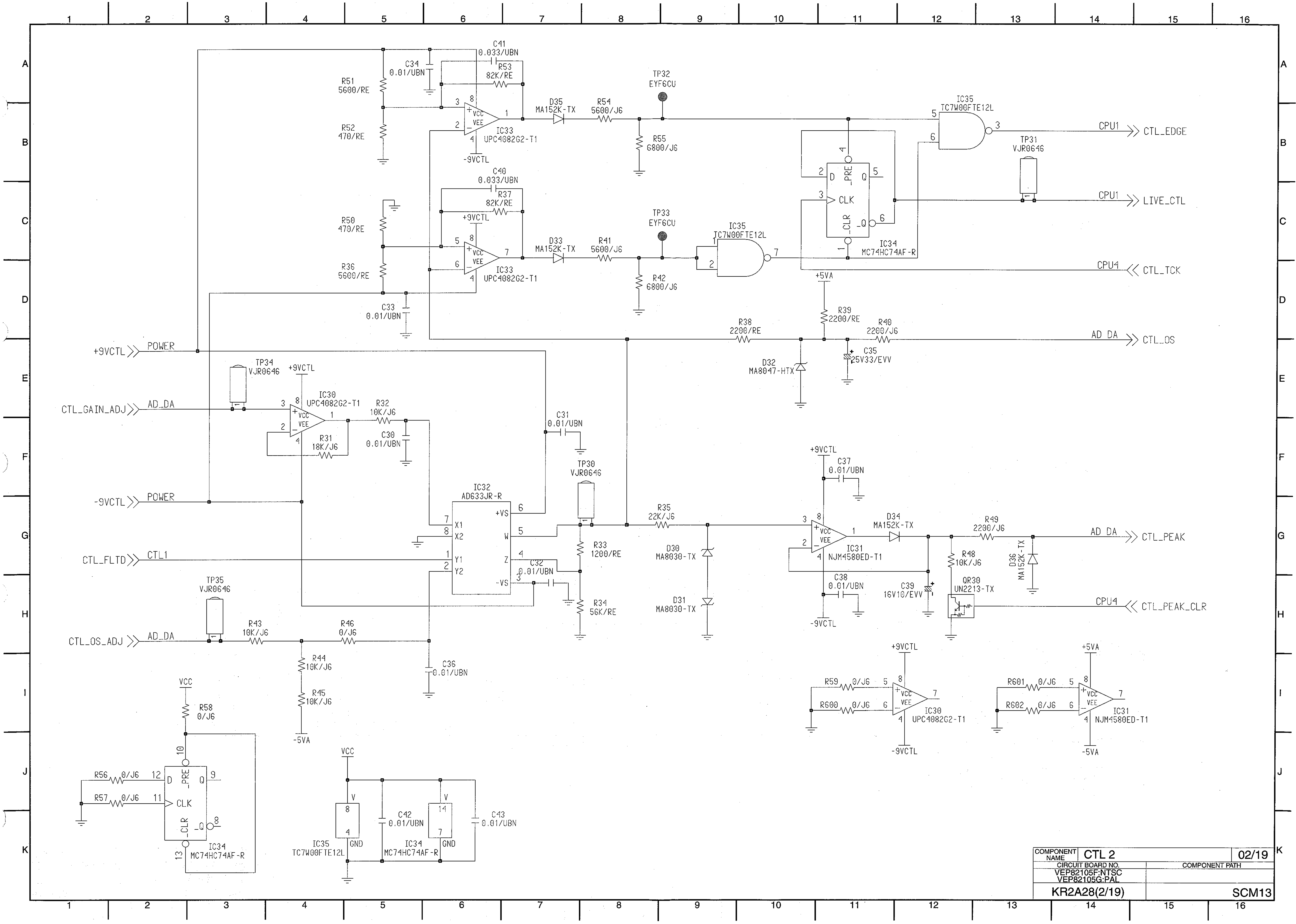
P031 VJP1239T

P13_6A	1	D_IN_DATA12G
P13_6B	2	D_IN_DATA12N
P13_6C	3	D_IN_DATA12P
P13_7A	4	D_IN_DATA34G
P13_7B	5	D_IN_DATA34N
P13_7C	6	D_IN_DATA34P
P13_9A	7	D_OUT_DATA12G
P13_9B	8	D_OUT_DATA12N
P13_9C	9	D_OUT_DATA12P
P13_10A	10	D_OUT_DATA34G
P13_10B	11	D_OUT_DATA34N
P13_10C	12	D_OUT_DATA34P

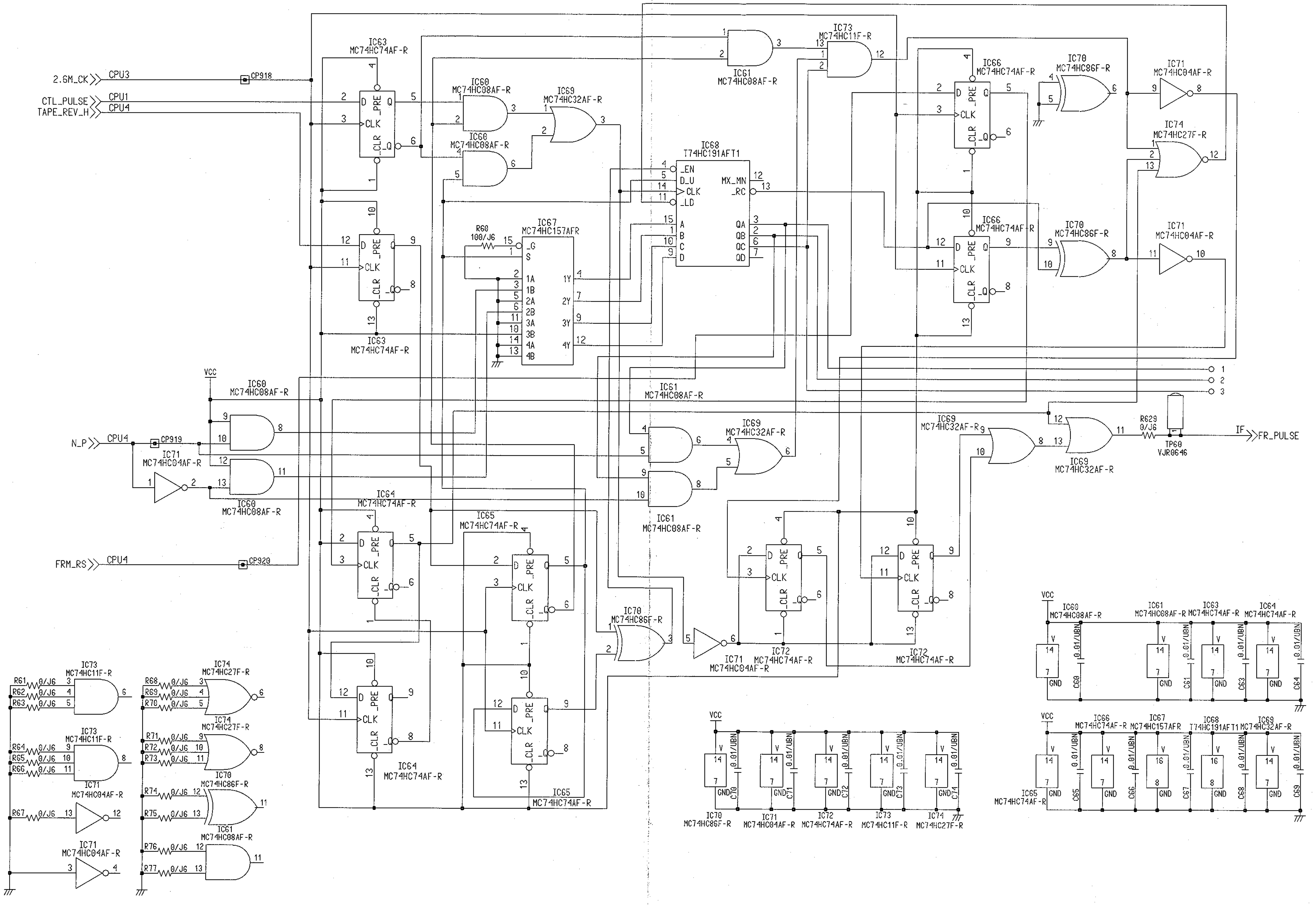
COMPONENT NAME	MOTHER CIRCUIT	11/11
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A11A		
KR0F01(11/11)	SCM11	


+9VCTL POWER
VCC POWER
CTL_REC CPU4
REC_CTL CPU1
-9VCTL POWER
CTL_FILTER0 CPU4
CTL_FILTER1 CPU4
CTL_PRE IF
CTL_GND IF
IC1 TC7WU04FT12L
IC1 TC7WU04FT12L
IC1 TC7WU04FT12L
IC1 TC7WU04FT12L
R1 1000/J6
R2 1000/J6
R3 1000/J6
R4 470/RE
R5 1000/J6
R6 470/RE
R7 1500/J6
Q1 2SD601A-RTX
Q2 2SB709A-RTX
Q3 2SB709A-RTX
Q4 2SD601A-RTX
C1 0.01/UBN
C2 0.01/UBN
TP1 VJR0646
QR1 UN2213-TX
QR2 UN2113-TX
QR3 UN2215-TX
QR4 UN2115-TX
D1 MA157-TX
D2 MA157-TX
R8 56K/J6
R9 100K/J6
R10 100K/J6
R11 56K/J6
C3 16V22/EVV
C4 16V47/EVV
C5 16V22/EVV
C6 16V22/EVV
Q5 2SB709A-RTX
Q6 2SD601A-RTX
IF
CTL_REC_CURR
+9VCTL
QR5 UN2213-TX
QR6 UN2213-TX
QR7 UN2113-TX
QR8 UN2113-TX
R12 10K/J6
R13 10K/J6
R640 10K/J6
R20 10K/J6
IC2 UPC4082G2-T1
C12 0.01/UBN
R21 100K/J6
C13 22P/UN
TP2 EYF6CU
-9VCTL
R14 270K/J6
R15 82K/J6
R16 15K/J6
R17 2700/J6
R18 82K/J6
R621 15K/J6
R25 0/J6
R26 0/J6
R27 0/J6
R28 0/J6
C15 2200P/UBN
C7 2200P/UBN
IC3 UPD4052BG-T1
A B E X0 X1 X2 X3 Y0 Y1 Y2 Y3 VDD VEE VSS X Y
C8 0.01/UBN
C9 0.01/UBN
C10 1000P/UN
R29 0/J6
D3 MA8075-HTX
D4 MA8075-HTX
IC2 UPC4082G2-T1
C11 0.01/UBN
R19 10K/J6
CTL2
CTL_FLTD
VCC
IC1 TC7WU04FT12L
V GND
C14 0.01/UBN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

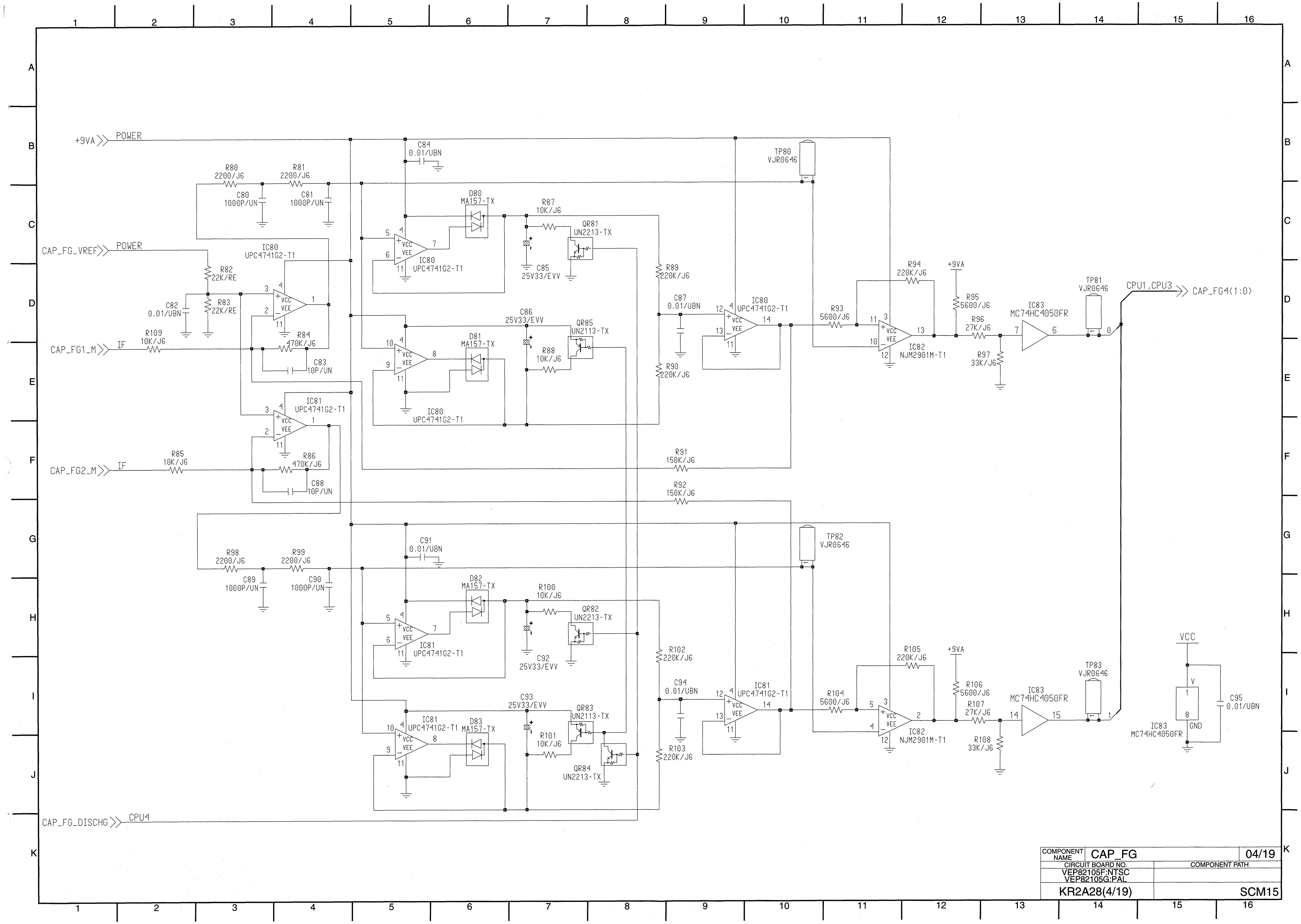
COMPONENT NAME	CTL 1	01/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(1/19)	SCM12	


+9VCTL
POWER
-9VCTL
POWER
CTL_GAIN_ADJ
AD_DA
CTL_FLTD
CTL1
CTL_OS_ADJ
AD_DA
C41
0.033/UBN
C34
0.01/UBN
R53
82K/RE
R51
5600/RE
R52
470/RE
IC33
UPC4082G2-T1
-9VCTL
D35
MA152K-TX
R54
5600/J6
TP32
EYF6CU
R55
6800/J6
IC35
TC7W00FTE12L
CPU1
CTL_EDGE
TP31
VJR0646
CPU1
LIVE_CTL
C40
0.033/UBN
R37
82K/RE
+9VCTL
R50
470/RE
R36
5600/RE
IC33
UPC4082G2-T1
D33
MA152K-TX
R41
5600/J6
TP33
EYF6CU
R42
6800/J6
IC35
TC7W00FTE12L
IC34
MC74HC74AF-R
D
_PRE
Q
CLK
_CLR
_Q
CPU4
CTL_TCK
+5VA
R39
2200/RE
C33
0.01/UBN
R38
2200/RE
R40
2200/J6
AD DA
CTL_OS
D32
MA8047-HTX
C35
25V33/EVV
TP34
VJR0646
+9VCTL
IC30
UPC4082G2-T1
R32
10K/J6
C30
0.01/UBN
R31
18K/J6
C31
0.01/UBN
IC32
AD633JR-R
X1
X2
Y1
Y2
+VS
W
Z
-VS
TP30
VJR0646
C32
0.01/UBN
R33
1200/RE
R34
56K/RE
R35
22K/J6
D30
MA8030-TX
D31
MA8030-TX
+9VCTL
C37
0.01/UBN
IC31
NJM4580ED-T1
C38
0.01/UBN
-9VCTL
D34
MA152K-TX
R49
2200/J6
AD DA
CTL_PEAK
R48
10K/J6
D36
MA152K-TX
C39
16V10/EVV
QR30
UN2213-TX
CPU4
CTL_PEAK_CLR
TP35
VJR0646
R43
10K/J6
R46
0/J6
R44
10K/J6
R45
10K/J6
-5VA
C36
0.01/UBN
+9VCTL
R59
0/J6
R600
0/J6
IC30
UPC4082G2-T1
-9VCTL
+5VA
R601
0/J6
R602
0/J6
IC31
NJM4580ED-T1
-5VA
VCC
R58
0/J6
R56
0/J6
R57
0/J6
IC34
MC74HC74AF-R
VCC
IC35
TC7W00FTE12L
C42
0.01/UBN
IC34
MC74HC74AF-R
C43
0.01/UBN
GND
V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

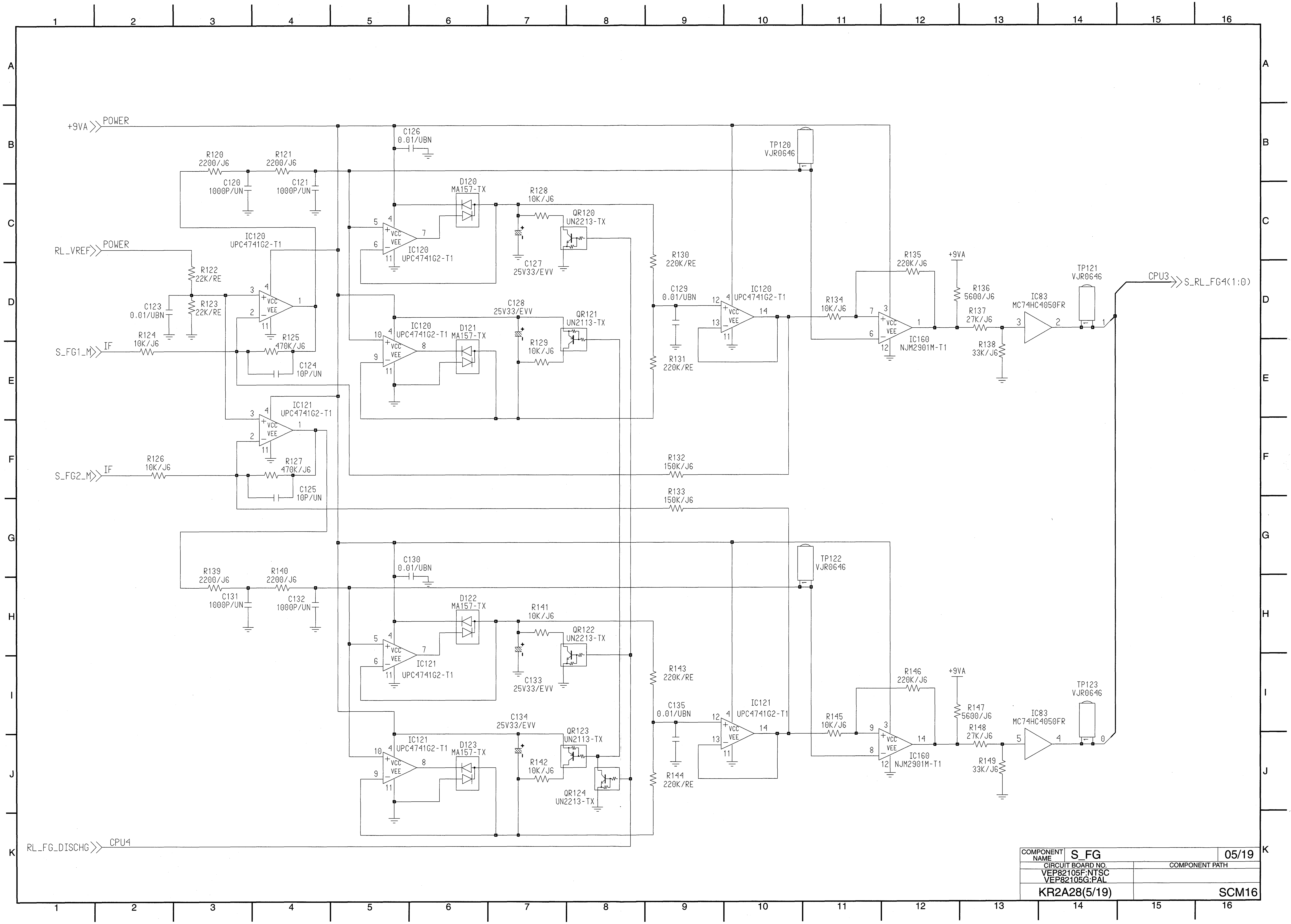
COMPONENT NAME	CTL 2	02/19
CIRCUIT BOARD NO. VEP82105F:NTSC VEP82105G:PAL		COMPONENT PATH
KR2A28(2/19)		SCM13


2.6M_CK
CPU3
CP918
CTL_PULSE
CPU1
TAPE_REV_H
CPU4
IC63 MC74HC74AF-R
IC60 MC74HC08AF-R
IC69 MC74HC32AF-R
IC61 MC74HC08AF-R
IC73 MC74HC11F-R
IC66 MC74HC74AF-R
IC70 MC74HC86F-R
IC71 MC74HC04AF-R
IC74 MC74HC27F-R
IC68 T74HC191AFT1
IC67 MC74HC157AFR
R60 100/J6
VCC
N_P
CP919
FRM_RS
CP920
IC64 MC74HC74AF-R
IC65 MC74HC74AF-R
IC72 MC74HC74AF-R
R629 0/J6
TP60 VJR0646
IF
FR_PULSE
R61 0/J6
R62 0/J6
R63 0/J6
R64 0/J6
R65 0/J6
R66 0/J6
R67 0/J6
R68 0/J6
R69 0/J6
R70 0/J6
R71 0/J6
R72 0/J6
R73 0/J6
R74 0/J6
R75 0/J6
R76 0/J6
R77 0/J6
0.01/UBN
C60
C61
C63
C64
C65
C66
C67
C68
C69
C70
C71
C72
C73
C74
GND

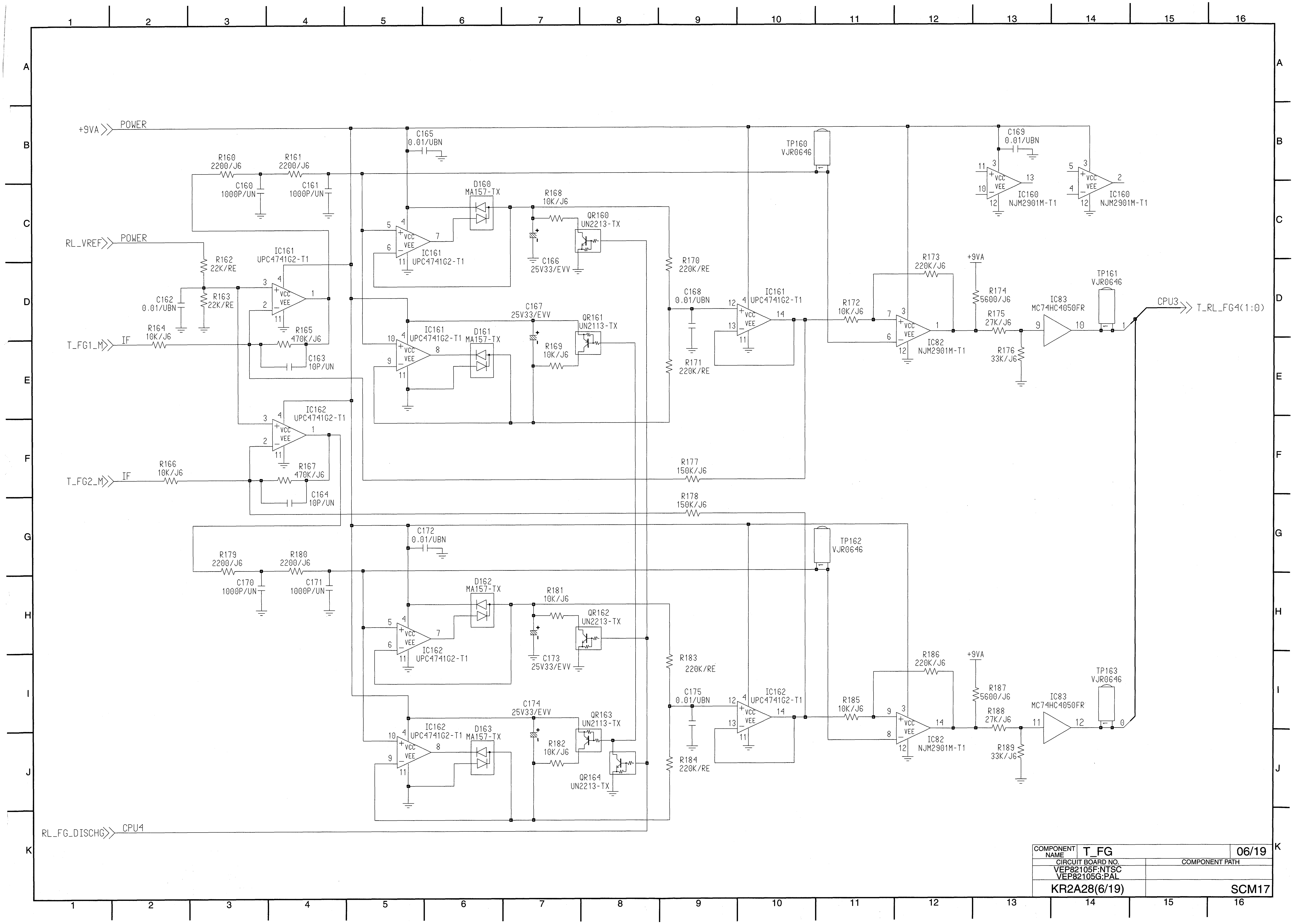
COMPONENT NAME	CTL 3	03/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(3/19)		SCM14


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
+9VA
POWER
C84
0.01/UBN
TP80
VJR0646
R80
2200/J6
R81
2200/J6
C80
1000P/UN
C81
1000P/UN
D80
MA157-TX
R87
10K/J6
QR81
UN2213-TX
CAP_FG_VREF
POWER
IC80
UPC4741G2-T1
R82
22K/RE
R83
22K/RE
C82
0.01/UBN
C85
25V33/EVV
R89
220K/J6
R94
220K/J6
+9VA
R95
5600/J6
TP81
VJR0646
CPU1,CPU3
CAP_FG4(1:0)
C86
25V33/EVV
QR85
UN2113-TX
C87
0.01/UBN
IC80
UPC4741G2-T1
R93
5600/J6
R96
27K/J6
IC83
MC74HC4050FR
D81
MA157-TX
R88
10K/J6
IC82
NJM2901M-T1
R97
33K/J6
CAP_FG1_M
IF
R109
10K/J6
R84
470K/J6
C83
10P/UN
R90
220K/J6
IC81
UPC4741G2-T1
R91
150K/J6
CAP_FG2_M
IF
R85
10K/J6
R86
470K/J6
C88
10P/UN
R92
150K/J6
C91
0.01/UBN
TP82
VJR0646
R98
2200/J6
R99
2200/J6
C89
1000P/UN
C90
1000P/UN
D82
MA157-TX
R100
10K/J6
QR82
UN2213-TX
IC81
UPC4741G2-T1
C92
25V33/EVV
R102
220K/J6
R105
220K/J6
+9VA
R106
5600/J6
VCC
C95
0.01/UBN
C93
25V33/EVV
QR83
UN2113-TX
C94
0.01/UBN
IC81
UPC4741G2-T1
R104
5600/J6
R107
27K/J6
IC83
MC74HC4050FR
TP83
VJR0646
IC83
MC74HC4050FR
GND
D83
MA157-TX
R101
10K/J6
QR84
UN2213-TX
R103
220K/J6
IC82
NJM2901M-T1
R108
33K/J6
CAP_FG_DISCHG
CPU4

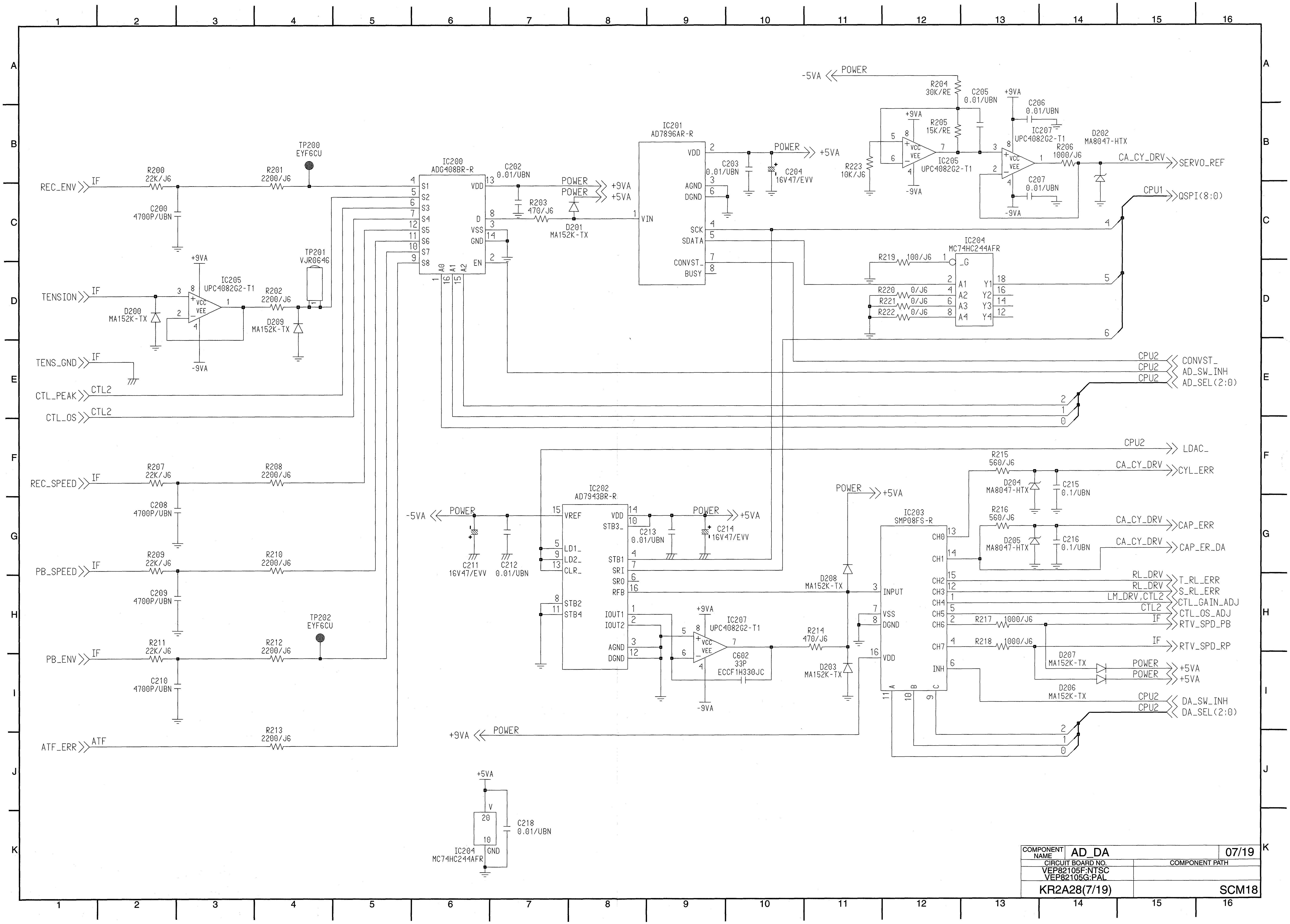
COMPONENT NAME	CAP_FG	04/19
CIRCUIT BOARD NO. VEP82105F:NTSC VEP82105G:PAL	COMPONENT PATH	
KR2A28(4/19)	SCM15	


+9VA
POWER
RL_VREF
POWER
S_FG1_M
IF
S_FG2_M
IF
RL_FG_DISCHG
CPU4
CPU3
S_RL_FG4(1:0)
R120 2200/J6
R121 2200/J6
C120 1000P/UN
C121 1000P/UN
C126 0.01/UBN
IC120 UPC4741G2-T1
R122 22K/RE
R123 22K/RE
C123 0.01/UBN
R124 10K/J6
R125 470K/J6
C124 10P/UN
IC121 UPC4741G2-T1
R126 10K/J6
R127 470K/J6
C125 10P/UN
D120 MA157-TX
R128 10K/J6
QR120 UN2213-TX
C127 25V33/EVV
C128 25V33/EVV
D121 MA157-TX
R129 10K/J6
QR121 UN2113-TX
R130 220K/RE
R131 220K/RE
C129 0.01/UBN
R132 150K/J6
R133 150K/J6
TP120 VJR0646
R134 10K/J6
R135 220K/J6
R136 5600/J6
R137 27K/J6
R138 33K/J6
IC160 NJM2901M-T1
IC83 MC74HC4050FR
TP121 VJR0646
R139 2200/J6
R140 2200/J6
C130 0.01/UBN
C131 1000P/UN
C132 1000P/UN
D122 MA157-TX
R141 10K/J6
QR122 UN2213-TX
C133 25V33/EVV
C134 25V33/EVV
D123 MA157-TX
R142 10K/J6
QR123 UN2113-TX
QR124 UN2213-TX
R143 220K/RE
R144 220K/RE
C135 0.01/UBN
TP122 VJR0646
R145 10K/J6
R146 220K/J6
R147 5600/J6
R148 27K/J6
R149 33K/J6
TP123 VJR0646
VCC
VEE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	S_FG	05/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(5/19)		SCM16

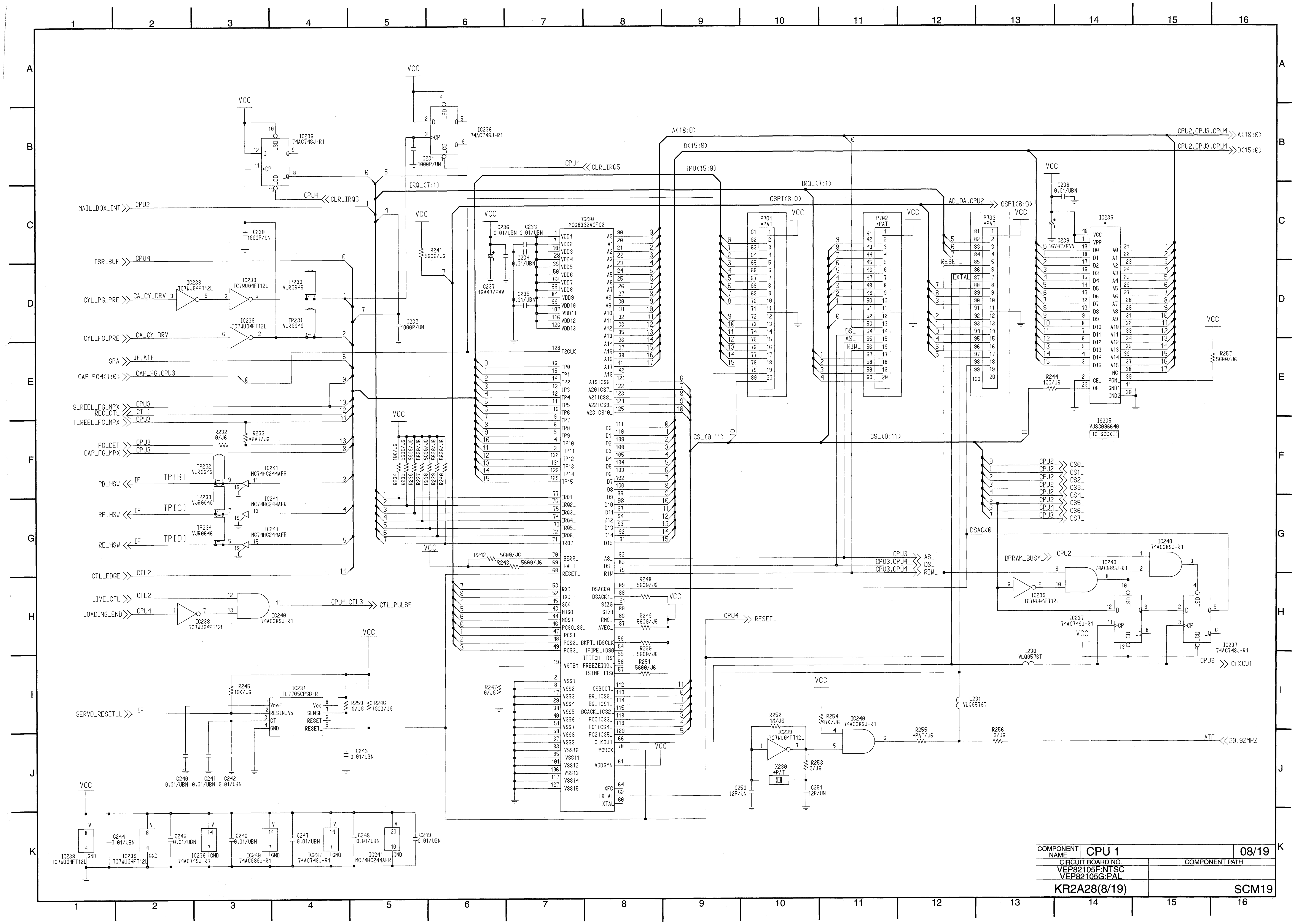

+9VA
POWER
RL_VREF
POWER
T_FG1_M
IF
T_FG2_M
IF
RL_FG_DISCHG
CPU4
CPU3
T_RL_FG4(1:0)
R160 2200/J6
R161 2200/J6
C160 1000P/UN
C161 1000P/UN
C165 0.01/UBN
D160 MA157-TX
R168 10K/J6
QR160 UN2213-TX
C166 25V33/EVV
IC161 UPC4741G2-T1
R162 22K/RE
R163 22K/RE
C162 0.01/UBN
R164 10K/J6
R165 470K/J6
C163 10P/UN
C167 25V33/EVV
QR161 UN2113-TX
D161 MA157-TX
R169 10K/J6
R170 220K/RE
R171 220K/RE
C168 0.01/UBN
TP160 VJR0646
C169 0.01/UBN
IC160 NJM2901M-T1
R173 220K/J6
R172 10K/J6
IC82 NJM2901M-T1
R174 5600/J6
R175 27K/J6
R176 33K/J6
IC83 MC74HC4050FR
TP161 VJR0646
IC162 UPC4741G2-T1
R166 10K/J6
R167 470K/J6
C164 10P/UN
R177 150K/J6
R178 150K/J6
C172 0.01/UBN
TP162 VJR0646
R179 2200/J6
R180 2200/J6
C170 1000P/UN
C171 1000P/UN
D162 MA157-TX
R181 10K/J6
QR162 UN2213-TX
C173 25V33/EVV
R183 220K/RE
C174 25V33/EVV
QR163 UN2113-TX
D163 MA157-TX
R182 10K/J6
QR164 UN2213-TX
R184 220K/RE
C175 0.01/UBN
R186 220K/J6
R185 10K/J6
R187 5600/J6
R188 27K/J6
R189 33K/J6
TP163 VJR0646
VCC
VEE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME	T_FG	06/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(6/19)		SCM17

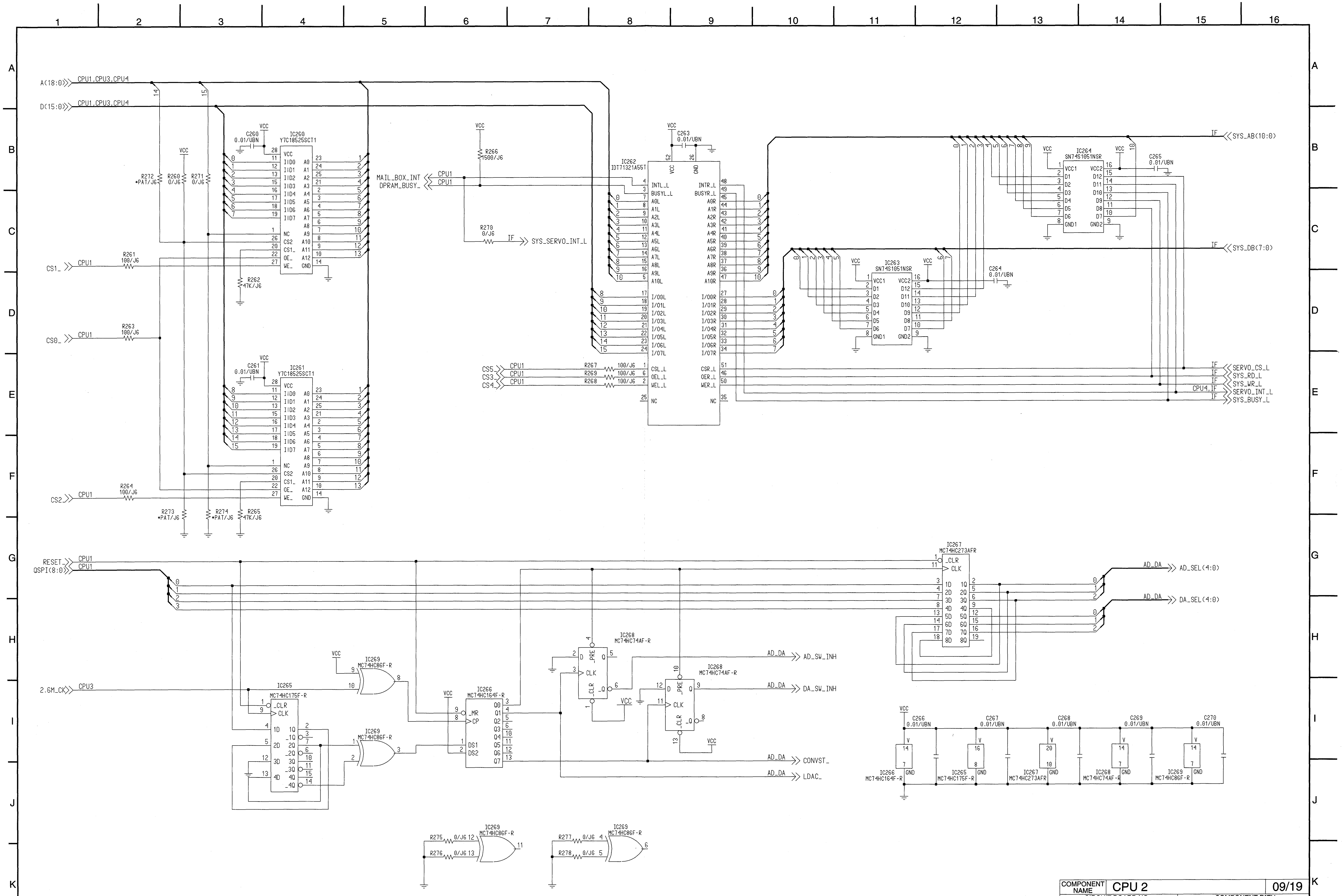


REC_ENV
IF
R200 22K/J6
C200 4700P/UBN
R201 2200/J6
TP200 EYF6CU
TENSION
IF
+9VA
IC205 UPC4082G2-T1
D200 MA152K-TX
-9VA
R202 2200/J6
D209 MA152K-TX
TP201 VJR0646
TENS_GND
IF
CTL_PEAK
CTL2
CTL_OS
CTL2
IC200 ADG408BR-R
S1 S2 S3 S4 S5 S6 S7 S8
VDD D VSS GND EN
A0 A1 A2
C202 0.01/UBN
POWER +9VA
POWER +5VA
R203 470/J6
D201 MA152K-TX
IC201 AD7896AR-R
VDD AGND DGND VIN SCK SDATA CONVST_ BUSY
C203 0.01/UBN
C204 16V47/EVV
POWER +5VA
-5VA POWER
R204 30K/RE
R205 15K/RE
C205 0.01/UBN
+9VA
C206 0.01/UBN
IC207 UPC4082G2-T1
R223 10K/J6
IC205 UPC4082G2-T1
-9VA
R206 1000/J6
D202 MA8047-HTX
C207 0.01/UBN
CA_CY_DRV
SERVO_REF
CPU1
QSPI(8:0)
IC204 MC74HC244AFR
R219 100/J6
_G
R220 0/J6
R221 0/J6
R222 0/J6
A1 A2 A3 A4 Y1 Y2 Y3 Y4
CPU2 CONVST_
CPU2 AD_SW_INH
CPU2 AD_SEL(2:0)
CPU2 LDAC_
REC_SPEED
IF
R207 22K/J6
R208 2200/J6
C208 4700P/UBN
PB_SPEED
IF
R209 22K/J6
R210 2200/J6
C209 4700P/UBN
PB_ENV
IF
R211 22K/J6
R212 2200/J6
TP202 EYF6CU
C210 4700P/UBN
ATF_ERR
ATF
R213 2200/J6
-5VA POWER
C211 16V47/EVV
C212 0.01/UBN
IC202 AD7943BR-R
VREF VDD STB3_ LD1_ LD2_ CLR_ STB1 SRI SRO RFB STB2 STB4 IOUT1 IOUT2 AGND DGND
C213 0.01/UBN
POWER +5VA
C214 16V47/EVV
IC207 UPC4082G2-T1
-9VA
C602 33P ECCF1H330JC
R214 470/J6
D208 MA152K-TX
D203 MA152K-TX
POWER +5VA
IC203 SMP08FS-R
INPUT VSS DGND VDD CH0 CH1 CH2 CH3 CH4 CH5 CH6 CH7 INH A B C
R215 560/J6
CA_CY_DRV CYL_ERR
D204 MA8047-HTX
C215 0.1/UBN
R216 560/J6
CA_CY_DRV CAP_ERR
D205 MA8047-HTX
C216 0.1/UBN
CA_CY_DRV CAP_ER_DA
RL_DRV T_RL_ERR
RL_DRV S_RL_ERR
LM_DRV,CTL2 CTL_GAIN_ADJ
CTL2 CTL_OS_ADJ
R217 1000/J6
IF RTV_SPD_PB
R218 1000/J6
IF RTV_SPD_RP
D207 MA152K-TX
POWER +5VA
POWER +5VA
D206 MA152K-TX
CPU2 DA_SW_INH
CPU2 DA_SEL(2:0)
+9VA POWER
+5VA
IC204 MC74HC244AFR
V GND
C218 0.01/UBN

COMPONENT NAME	AD_DA	07/19
CIRCUIT BOARD NO. VEP82105F:NTSC VEP82105G:PAL	COMPONENT PATH	
KR2A28(7/19)		SCM18


MAIL_BOX_INT
TSR_BUF
CYL_PG_PRE
CYL_FG_PRE
SPA
CAP_FG4(1:0)
S_REEL_FG_MPX
REC_CTL
T_REEL_FG_MPX
FG_DET
CAP_FG_MPX
PB_HSW
RP_HSW
RE_HSW
CTL_EDGE
LIVE_CTL
LOADING_END
SERVO_RESET_L
CA_CY_DRV
IF,ATF
CAP_FG,CPU3
TP[B]
TP[C]
TP[D]
CTL2
CPU4,CTL3
CTL_PULSE
CLR_IRQ6
CLR_IRQ5
IRQ_(7:1)
A(18:0)
D(15:0)
TPU(15:0)
QSPI(8:0)
AD_DA,CPU2
CS_(0:11)
CPU2,CPU3,CPU4
IC230
MC68332ACFC2
IC231
TL7705CPSB-R
IC235
VJS3096640
IC_SOCKET
IC236
74AC74SJ-R1
IC237
74AC74SJ-R1
IC238
TC7WU04FT12L
IC239
TC7WU04FT12L
IC240
74AC08SJ-R1
IC241
MC74HC244AFR
P701
P702
P703
*PAT
TP230
TP231
TP232
TP233
TP234
VJR0646
X230
L230
L231
VLQ0576T
DPRAM_BUSY
DSACK0
RESET_
CS0_
CS1_
CS2_
CS3_
CS4_
CS5_
CS6_
CS7_
AS_
DS_
RIW_
CLKOUT
ATF
20.92MHZ
VCC
GND

COMPONENT NAME	CPU 1	08/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(8/19)	SCM19	


A(18:0)
CPU1,CPU3,CPU4
D(15:0)
CPU1,CPU3,CPU4
CS1_
CPU1
R261 100/J6
CS0_
R263 100/J6
CS2_
R264 100/J6
R272 *PAT/J6
R260 0/J6
R271 0/J6
R262 47K/J6
R273 *PAT/J6
R274 *PAT/J6
R265 47K/J6
VCC
C260 0.01/UBN
IC260 Y7C18525SCT1
C261 0.01/UBN
IC261 Y7C18525SCT1
IID0
IID1
IID2
IID3
IID4
IID5
IID6
IID7
NC
CS2
CS1_
OE_
WE_
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
GND
MAIL_BOX_INT
DPRAM_BUSY_
R266 1500/J6
R270 0/J6
IF
SYS_SERVO_INT_L
IC262 IDT71321A55T
C263 0.01/UBN
INTL_L
BUSYL_L
A0L
A1L
A2L
A3L
A4L
A5L
A6L
A7L
A8L
A9L
A10L
I/O0L
I/O1L
I/O2L
I/O3L
I/O4L
I/O5L
I/O6L
I/O7L
CSL_L
OEL_L
WEL_L
INTR_L
BUSYR_L
A0R
A1R
A2R
A3R
A4R
A5R
A6R
A7R
A8R
A9R
A10R
I/O0R
I/O1R
I/O2R
I/O3R
I/O4R
I/O5R
I/O6R
I/O7R
CSR_L
OER_L
WER_L
CS5_
CS3_
CS4_
R267 100/J6
R269 100/J6
R268 100/J6
SYS_AB(10:0)
IC264 SN74S1051NSR
C265 0.01/UBN
SYS_DB(7:0)
IC263 SN74S1051NSR
C264 0.01/UBN
VCC1
VCC2
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
GND1
GND2
SERVO_CS_L
SYS_RD_L
SYS_WR_L
CPU4,IF
SERVO_INT_L
SYS_BUSY_L
RESET_
QSPI(8:0)
IC267 MC74HC273AFR
_CLR
CLK
AD_DA
AD_SEL(4:0)
DA_SEL(4:0)
IC268 MC74HC74AF-R
_PRE
_CLR
AD_SW_INH
DA_SW_INH
2.6M_CK
CPU3
IC269 MC74HC86F-R
IC265 MC74HC175F-R
IC266 MC74HC164F-R
_MR
CP
DS1
DS2
CONVST_
LDAC_
C266 0.01/UBN
C267 0.01/UBN
C268 0.01/UBN
C269 0.01/UBN
C270 0.01/UBN
IC266 MC74HC164F-R
IC265 MC74HC175F-R
IC267 MC74HC273AFR
IC268 MC74HC74AF-R
IC269 MC74HC86F-R
R275 0/J6
R276 0/J6
R277 0/J6
R278 0/J6

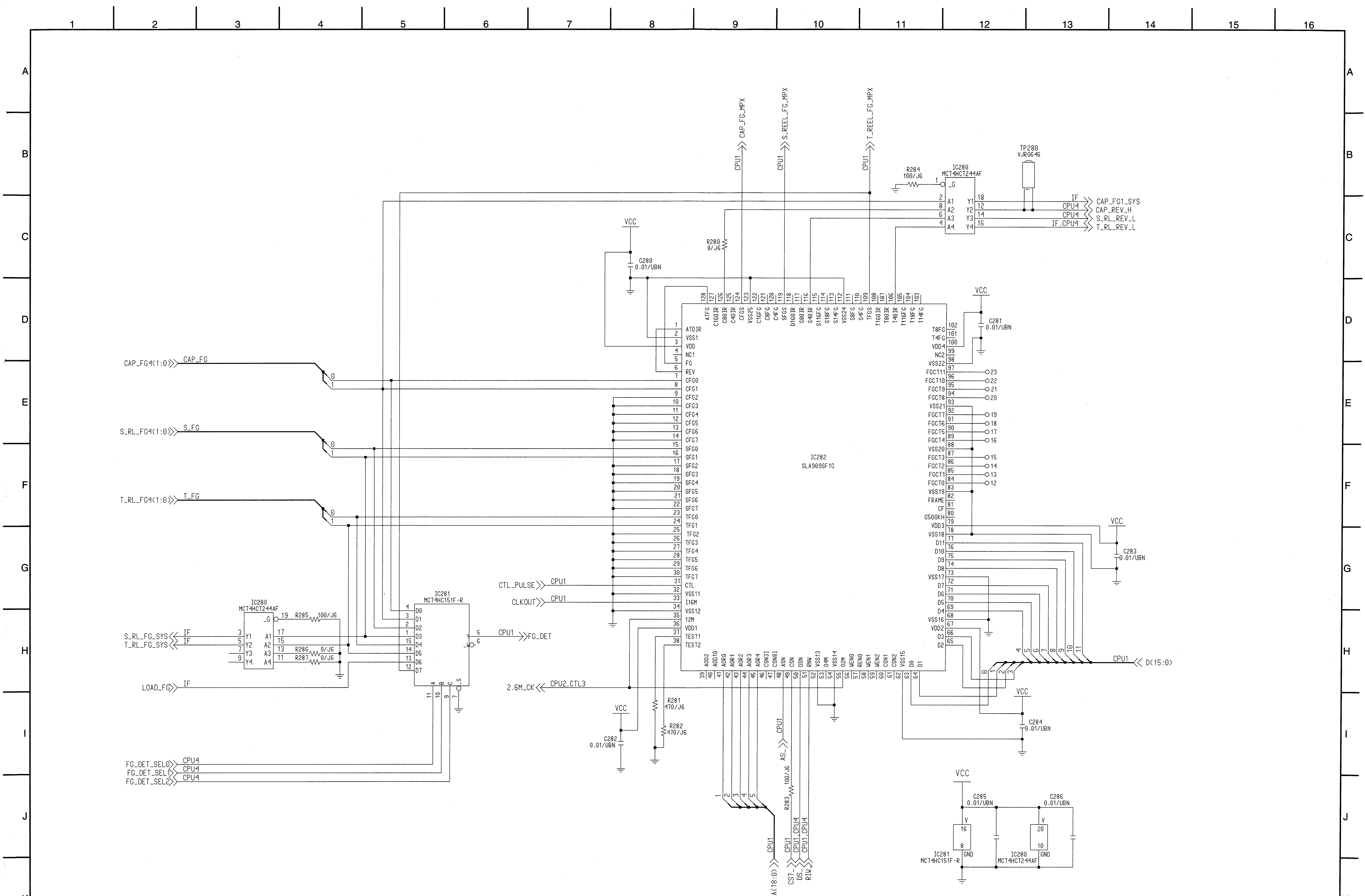
COMPONENT NAME: CPU 2 — 09/19

CIRCUIT BOARD NO.
VEP82105F:NTSC
VEP82105G:PAL

COMPONENT PATH

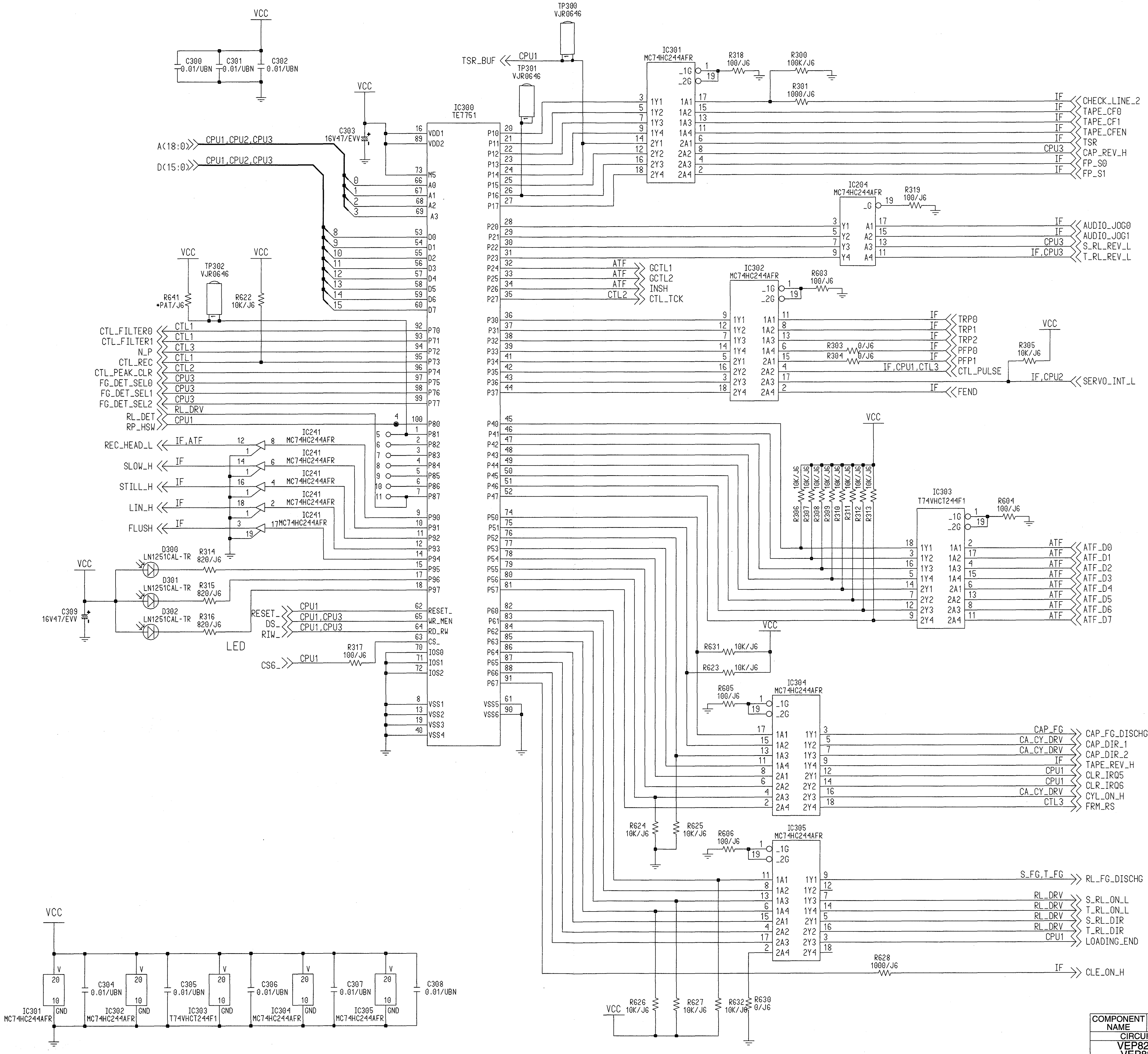
KR2A28(9/19)

SCM20

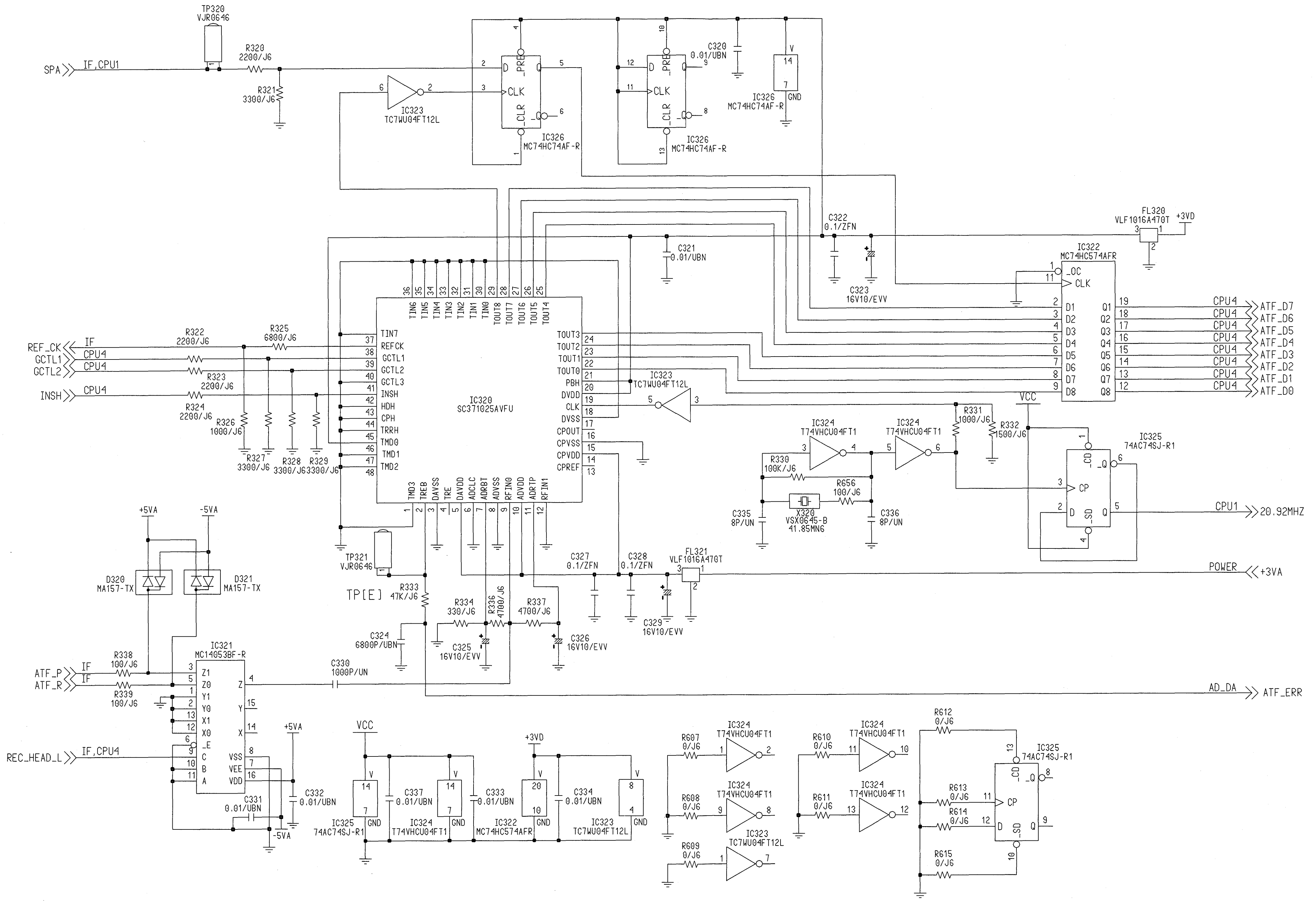


IC282
SLA909SF1G
IC281
MC74HC151F-R
IC280
MC74HCT244AF
TP280
VJR0646
CAP_FG_MPX
S_REEL_FG_MPX
T_REEL_FG_MPX
CPU1
R284
100/J6
R280
0/J6
C280
0.01/UBN
C281
0.01/UBN
C283
0.01/UBN
C284
0.01/UBN
C282
0.01/UBN
C285
0.01/UBN
C286
0.01/UBN
R281
470/J6
R282
470/J6
R283
100/J6
R285
100/J6
R286
0/J6
R287
0/J6
VCC
CAP_FG1_SYS
CAP_REV_H
S_RL_REV_L
T_RL_REV_L
IF
CPU4
IF,CPU4
CAP_FG4(1:0)
CAP_FG
S_RL_FG4(1:0)
S_FG
T_RL_FG4(1:0)
T_FG
S_RL_FG_SYS
T_RL_FG_SYS
LOAD_FG
FG_DET_SEL0
FG_DET_SEL1
FG_DET_SEL2
FG_DET
CTL_PULSE
CLKOUT
2.6M_CK
CPU2,CTL3
D(15:0)
A(18:0)
AS_
CS7_
DS_
R|W
CPU1,CPU4
ATDIR
VSS1
VDD
NC1
FG
REV
CFG0
CFG1
CFG2
CFG3
CFG4
CFG5
CFG6
CFG7
SFG0
SFG1
SFG2
SFG3
SFG4
SFG5
SFG6
SFG7
TFG0
TFG1
TFG2
TFG3
TFG4
TFG5
TFG6
TFG7
CTL
VSS11
I16M
VSS12
12M
VDD1
TEST1
TEST2
ATFG
C160IR
C80IR
C40IR
CFGS
VSS25
C16FG
C8FG
C4FG
SFGS
D160IR
S80IR
S40IR
S116FG
S18FG
S14FG
VSS24
S8FG
S4FG
TFGS
T160IR
T80IR
T40IR
T116FG
T18FG
T14FG
T8FG
T4FG
VDD4
NC2
VSS22
FGCT11
FGCT10
FGCT9
FGCT8
VSS21
FGCT7
FGCT6
FGCT5
FGCT4
VSS20
FGCT3
FGCT2
FGCT1
FGCT0
VSS19
FRAME
CF
G500KH
VDD3
VSS18
D11
D10
D9
D8
VSS17
D7
D6
D5
D4
VSS16
VDD2
D3
D2
AOD2
AOD10
AOR0
AOR1
AOR2
AOR3
AOR4
CSN3I
CSN8I
ASN
CSN
DSN
RWN
VSS13
O4M
VSS14
O2M
WEN0
REN0
WEN1
WEN2
CSN1
CSN2
VSS15
D0
D1
_G
A1
A2
A3
A4
Y1
Y2
Y3
Y4
V
GND

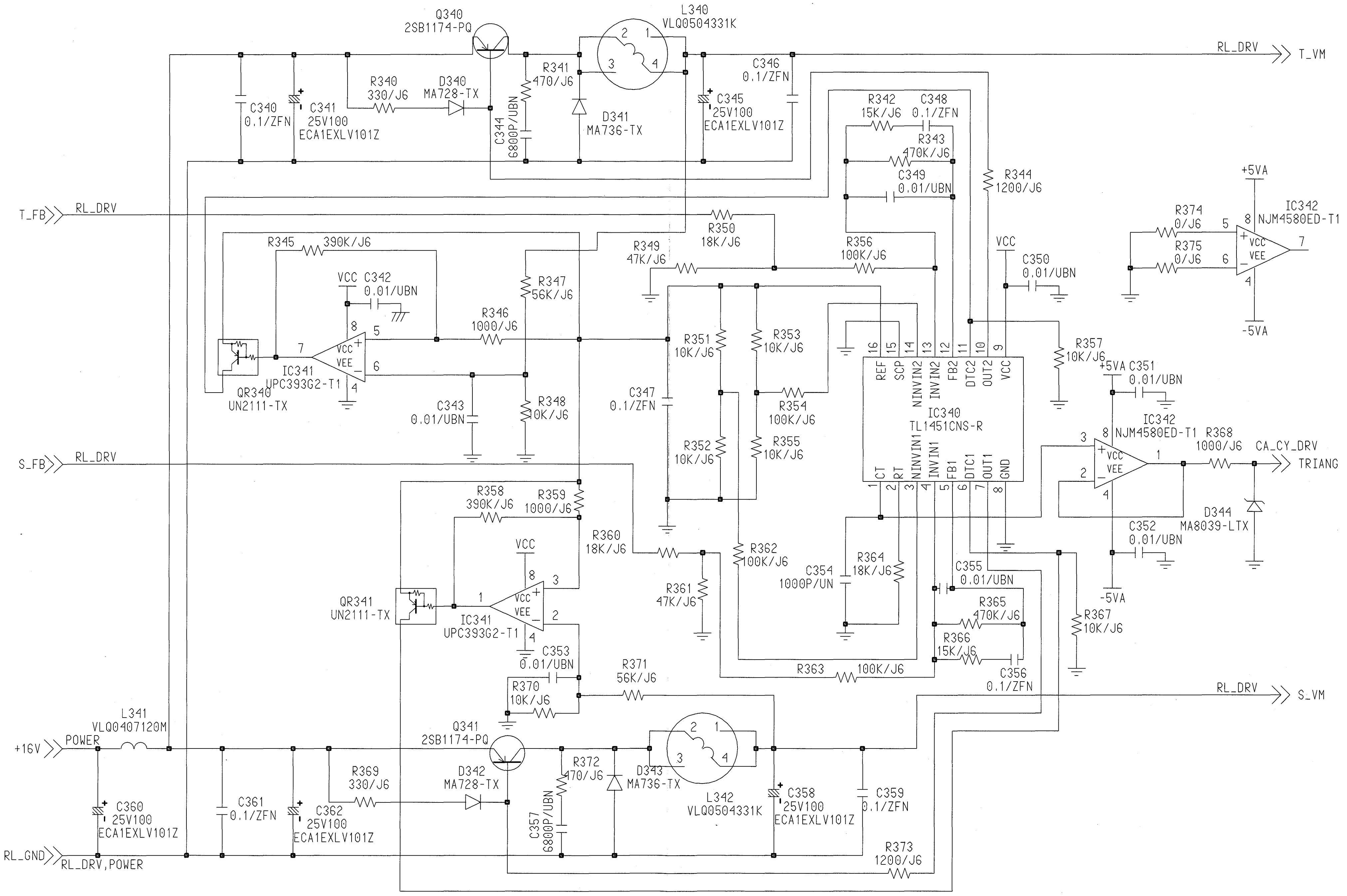
COMPONENT NAME	CPU 3	10/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(10/19)		SCM21


VCC
C300
0.01/UBN
C301
0.01/UBN
C302
0.01/UBN
C303
16V47/EVV
A(18:0)
D(15:0)
CPU1,CPU2,CPU3
IC300
TE7751
VDD1
VDD2
M5
A0
A1
A2
A3
D0
D1
D2
D3
D4
D5
D6
D7
TP300
VJR0646
TP301
VJR0646
TP302
VJR0646
TSR_BUF
CPU1
R641
*PAT/J6
R622
10K/J6
CTL_FILTER0
CTL_FILTER1
N_P
CTL_REC
CTL_PEAK_CLR
FG_DET_SEL0
FG_DET_SEL1
FG_DET_SEL2
RL_DET
RP_HSW
CTL1
CTL3
CTL2
CPU3
RL_DRV
P70
P71
P72
P73
P74
P75
P76
P77
P80
P81
P82
P83
P84
P85
P86
P87
P90
P91
P92
P93
P94
P95
P96
P97
REC_HEAD_L
IF,ATF
SLOW_H
STILL_H
LIN_H
FLUSH
IF
IC241
MC74HC244AFR
D300
LN1251CAL-TR
D301
LN1251CAL-TR
D302
LN1251CAL-TR
R314
820/J6
R315
820/J6
R316
820/J6
C309
16V47/EVV
LED
RESET_
DS_
RW_
CS6_
CPU1,CPU3
R317
100/J6
RESET_
WR_MEN
RD_RW
CS_
IOS0
IOS1
IOS2
VSS1
VSS2
VSS3
VSS4
VSS5
VSS6
P10
P11
P12
P13
P14
P15
P16
P17
P20
P21
P22
P23
P24
P25
P26
P27
P30
P31
P32
P33
P34
P35
P36
P37
P40
P41
P42
P43
P44
P45
P46
P47
P50
P51
P52
P53
P54
P55
P56
P57
P60
P61
P62
P63
P64
P65
P66
P67
IC301
MC74HC244AFR
R318
100/J6
R300
100K/J6
R301
1000/J6
_1G
_2G
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
CHECK_LINE_2
TAPE_CF0
TAPE_CF1
TAPE_CFEN
TSR
CAP_REV_H
FP_S0
FP_S1
IC204
MC74HC244AFR
R319
100/J6
_G
AUDIO_JOG0
AUDIO_JOG1
S_RL_REV_L
T_RL_REV_L
IF,CPU3
ATF
GCTL1
GCTL2
INSH
CTL_TCK
IC302
MC74HC244AFR
R603
100/J6
TRP0
TRP1
TRP2
PFP0
PFP1
CTL_PULSE
FEND
R303
0/J6
R304
0/J6
IF,CPU1,CTL3
R305
10K/J6
IF,CPU2
SERVO_INT_L
R306
R307
R308
R309
R310
R311
R312
R313
10K/J6
IC303
T74VHCT244F1
R604
100/J6
ATF_D0
ATF_D1
ATF_D2
ATF_D3
ATF_D4
ATF_D5
ATF_D6
ATF_D7
R631
10K/J6
R623
10K/J6
R605
100/J6
IC304
MC74HC244AFR
CAP_FG
CA_CY_DRV
CAP_FG_DISCHG
CAP_DIR_1
CAP_DIR_2
TAPE_REV_H
CLR_IRQ5
CLR_IRQ6
CYL_ON_H
FRM_RS
R624
10K/J6
R625
10K/J6
R606
100/J6
IC305
MC74HC244AFR
S_FG,T_FG
RL_FG_DISCHG
S_RL_ON_L
T_RL_ON_L
S_RL_DIR
T_RL_DIR
LOADING_END
R628
1000/J6
CLE_ON_H
R626
10K/J6
R627
10K/J6
R632
10K/J6
R630
0/J6
C304
0.01/UBN
C305
0.01/UBN
C306
0.01/UBN
C307
0.01/UBN
C308
0.01/UBN
IC301
MC74HC244AFR
IC302
MC74HC244AFR
IC303
T74VHCT244F1
IC304
MC74HC244AFR
IC305
MC74HC244AFR
GND
V

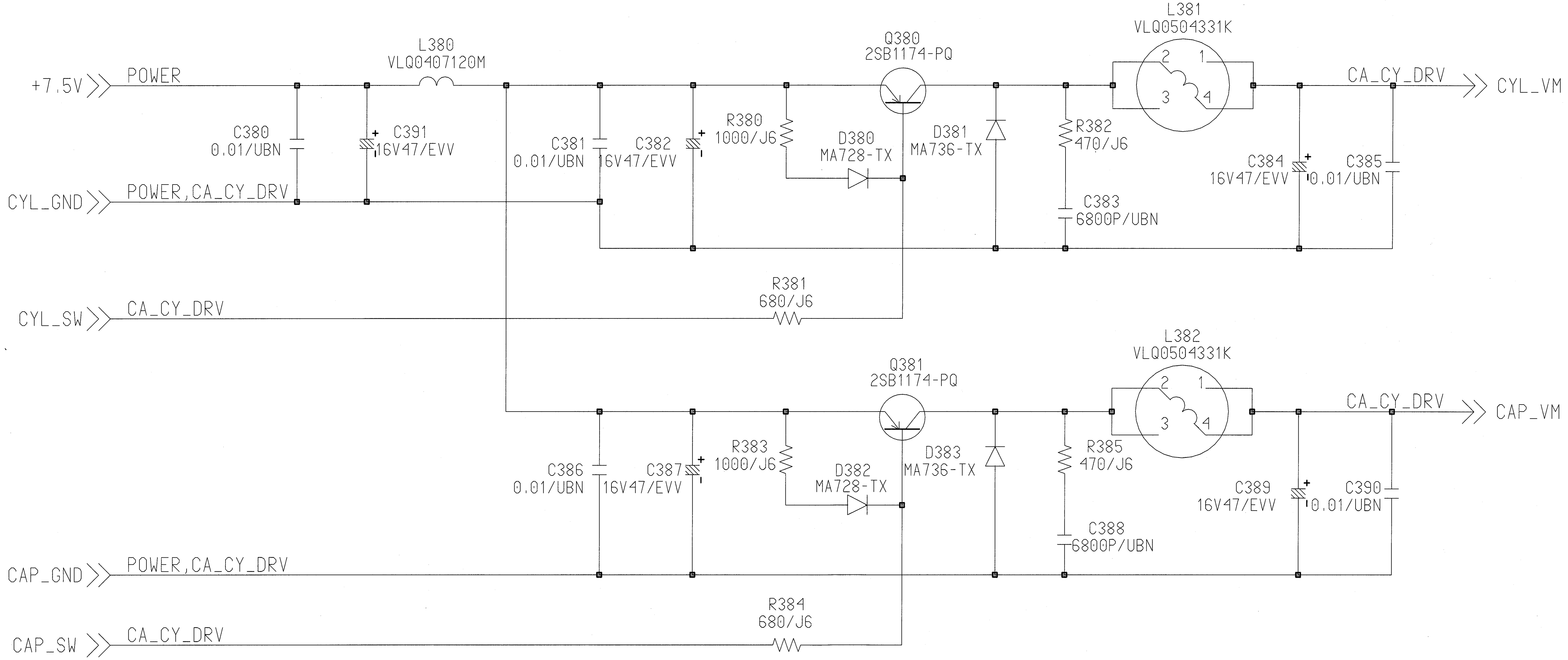
COMPONENT NAME	CPU 4	11/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(11/19)		SCM22


TP320
VJR0646
SPA
IF,CPU1
R320
2200/J6
R321
3300/J6
IC323
TC7WU04FT12L
IC326
MC74HC74AF-R
D
CLK
_PRE
_CLR
Q
_Q
C320
0.01/UBN
V
GND
C322
0.1/ZFN
C321
0.01/UBN
C323
16V10/EVV
FL320
VLF1016A470T
+3VD
IC322
MC74HC574AFR
_OC
D1
D2
D3
D4
D5
D6
D7
D8
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
CPU4
ATF_D7
ATF_D6
ATF_D5
ATF_D4
ATF_D3
ATF_D2
ATF_D1
ATF_D0
REF_CK
GCTL1
GCTL2
INSH
IF
CPU4
R322
2200/J6
R325
6800/J6
R323
2200/J6
R324
2200/J6
R326
1000/J6
R327
3300/J6
R328
3300/J6
R329
3300/J6
IC320
SC371025AVFU
TIN7
REFCK
GCTL1
GCTL2
GCTL3
INSH
HDH
CPH
TRRH
TMD0
TMD1
TMD2
TIN6
TIN5
TIN4
TIN3
TIN2
TIN1
TIN0
TOUT8
TOUT7
TOUT6
TOUT5
TOUT4
TOUT3
TOUT2
TOUT1
TOUT0
PBH
DVDD
CLK
DVSS
CPOUT
CPVSS
CPVDD
CPREF
TMD3
TREB
DAVSS
TRE
DAVDD
ADCLC
ADRBT
ADVSS
RFIN0
ADVDD
ADRTP
RFIN1
IC324
T74VHCU04FT1
R331
1000/J6
R332
1500/J6
VCC
IC325
74AC74SJ-R1
_CD
_SD
CP
R330
100K/J6
R656
100/J6
X320
VSX0645-B
41.85MHZ
C335
8P/UN
C336
8P/UN
CPU1
20.92MHZ
+5VA
-5VA
D320
MA157-TX
D321
MA157-TX
TP321
VJR0646
R333
47K/J6
TP[E]
R334
330/J6
R336
4700/J6
R337
4700/J6
C324
6800P/UBN
C325
16V10/EVV
C326
16V10/EVV
C327
0.1/ZFN
C328
0.1/ZFN
C329
16V10/EVV
FL321
VLF1016A470T
POWER
+3VA
ATF_P
ATF_R
R338
100/J6
R339
100/J6
IC321
MC14053BF-R
Z1
Z0
Y1
Y0
X1
X0
_E
C
B
A
Z
Y
X
VSS
VEE
VDD
C330
1000P/UN
AD_DA
ATF_ERR
REC_HEAD_L
IF,CPU4
C331
0.01/UBN
C332
0.01/UBN
+5VA
-5VA
VCC
+3VD
C337
0.01/UBN
C333
0.01/UBN
C334
0.01/UBN
IC325
74AC74SJ-R1
IC324
T74VHCU04FT1
IC322
MC74HC574AFR
IC323
TC7WU04FT12L
R607
0/J6
R608
0/J6
R609
0/J6
R610
0/J6
R611
0/J6
R612
0/J6
R613
0/J6
R614
0/J6
R615
0/J6
IC323
TC7WU04FT12L

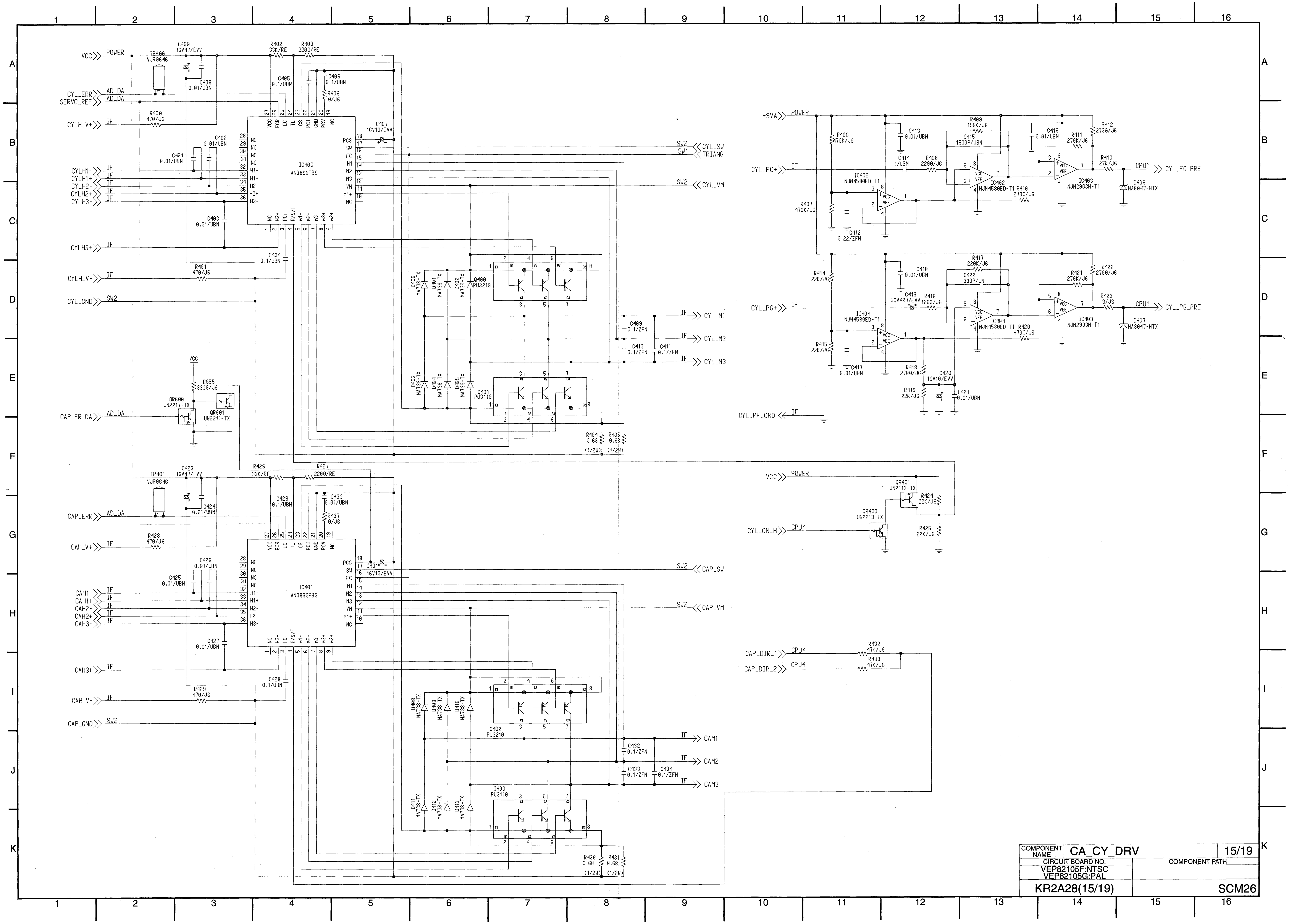
COMPONENT NAME	ATF	12/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(12/19)	SCM23	


Q340
2SB1174-PQ
L340
VLQ0504331K
RL_DRV
T_VM
R340
330/J6
D340
MA728-TX
R341
470/J6
C340
0.1/ZFN
C341
25V100
ECA1EXLV101Z
C344
6800P/UBN
D341
MA736-TX
C345
25V100
ECA1EXLV101Z
C346
0.1/ZFN
R342
15K/J6
C348
0.1/ZFN
R343
470K/J6
C349
0.01/UBN
R344
1200/J6
T_FB
RL_DRV
R350
18K/J6
R345
390K/J6
R349
47K/J6
R356
100K/J6
VCC
C350
0.01/UBN
VCC
C342
0.01/UBN
R347
56K/J6
R346
1000/J6
IC341
UPC393G2-T1
QR340
UN2111-TX
C343
0.01/UBN
R348
0K/J6
R351
10K/J6
R353
10K/J6
C347
0.1/ZFN
R354
100K/J6
R352
10K/J6
R355
10K/J6
IC340
TL1451CNS-R
REF
SCP
NINVIN2
INVIN2
FB2
DTC2
OUT2
VCC
CT
RT
NINVIN1
INVIN1
FB1
DTC1
OUT1
GND
R357
10K/J6
+5VA
C351
0.01/UBN
IC342
NJM4580ED-T1
R368
1000/J6
CA_CY_DRV
TRIANG
D344
MA8039-LTX
C352
0.01/UBN
-5VA
R374
0/J6
R375
0/J6
IC342
NJM4580ED-T1
+5VA
-5VA
S_FB
RL_DRV
R358
390K/J6
R359
1000/J6
R360
18K/J6
R362
100K/J6
C354
1000P/UN
R364
18K/J6
C355
0.01/UBN
R365
470K/J6
R366
15K/J6
C356
0.1/ZFN
R367
10K/J6
R361
47K/J6
QR341
UN2111-TX
IC341
UPC393G2-T1
C353
0.01/UBN
R363
100K/J6
R370
10K/J6
R371
56K/J6
RL_DRV
S_VM
L341
VLQ0407120M
+16V
POWER
Q341
2SB1174-PQ
R369
330/J6
D342
MA728-TX
R372
470/J6
D343
MA736-TX
L342
VLQ0504331K
C358
25V100
ECA1EXLV101Z
C359
0.1/ZFN
C360
25V100
ECA1EXLV101Z
C361
0.1/ZFN
C362
25V100
ECA1EXLV101Z
C357
6800P/UBN
RL_GND
RL_DRV,POWER
R373
1200/J6

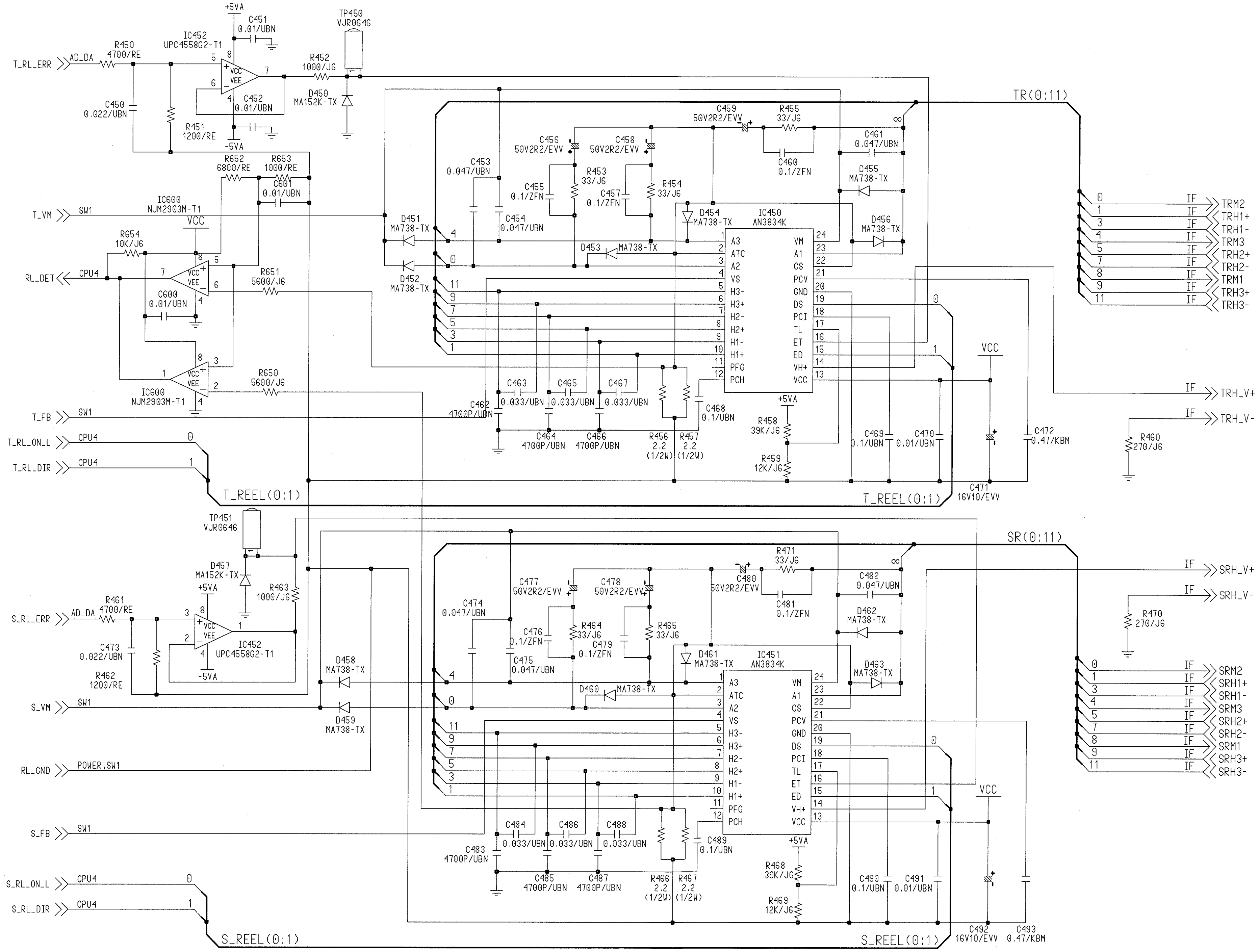
COMPONENT NAME	SW 1	13/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(13/19)	SCM24	


L380
VLQ0407120M
Q380
2SB1174-PQ
L381
VLQ0504331K
+7.5V
POWER
CA_CY_DRV
CYL_VM
C380
0.01/UBN
C391
16V47/EVV
C381
0.01/UBN
C382
16V47/EVV
R380
1000/J6
D380
MA728-TX
D381
MA736-TX
R382
470/J6
C384
16V47/EVV
C385
0.01/UBN
C383
6800P/UBN
CYL_GND
POWER,CA_CY_DRV
R381
680/J6
CYL_SW
CA_CY_DRV
L382
VLQ0504331K
Q381
2SB1174-PQ
CA_CY_DRV
CAP_VM
C386
0.01/UBN
C387
16V47/EVV
R383
1000/J6
D382
MA728-TX
D383
MA736-TX
R385
470/J6
C389
16V47/EVV
C390
0.01/UBN
C388
6800P/UBN
CAP_GND
POWER,CA_CY_DRV
R384
680/J6
CAP_SW
CA_CY_DRV

COMPONENT NAME	SW 2	14/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(14/19)		SCM25

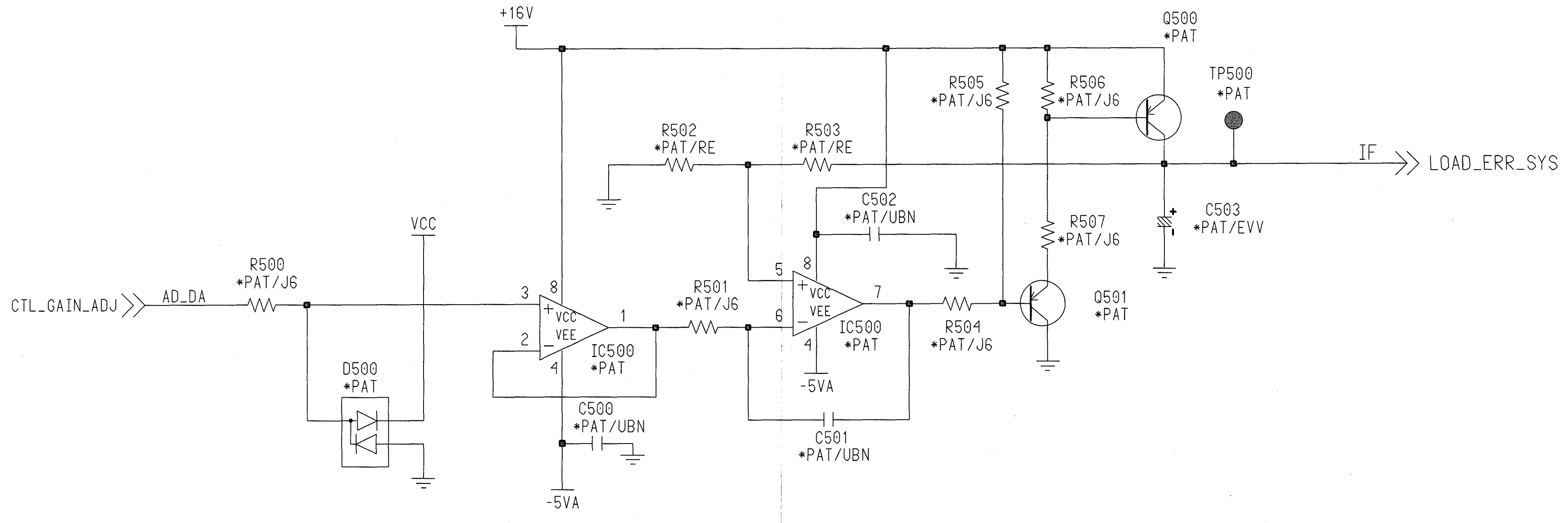

VCC POWER
CYL_ERR AD_DA
SERVO_REF AD_DA
CYLH_V+ IF
CYLH1- CYLH1+ CYLH2- CYLH2+ CYLH3-
CYLH3+ IF
CYLH_V- IF
CYL_GND SW2
CAP_ER_DA AD_DA
CAP_ERR AD_DA
CAH_V+ IF
CAH1- CAH1+ CAH2- CAH2+ CAH3-
CAH3+ IF
CAH_V- IF
CAP_GND SW2
IC400 AN3890FBS
IC401 AN3890FBS
Q400 PU3210
Q401 PU3110
Q402 PU3210
Q403 PU3110
QR600 UN2217-TX
QR601 UN2211-TX
TP400 VJR0646
TP401 VJR0646
SW2 CYL_SW
SW1 TRIANG
SW2 CYL_VM
IF CYL_M1
IF CYL_M2
IF CYL_M3
SW2 CAP_SW
SW2 CAP_VM
IF CAM1
IF CAM2
IF CAM3
+9VA POWER
CYL_FG+ IF
CPU1 CYL_FG_PRE
CYL_PG+ IF
CPU1 CYL_PG_PRE
CYL_PF_GND IF
IC402 NJM4580ED-T1
IC403 NJM2903M-T1
IC404 NJM4580ED-T1
D406 MA8047-HTX
D407 MA8047-HTX
VCC POWER
QR401 UN2113-TX
QR400 UN2213-TX
CYL_ON_H CPU4
CAP_DIR_1 CPU4
CAP_DIR_2 CPU4
R432 47K/J6
R433 47K/J6
R404 0.68 (1/2W)
R405 0.68 (1/2W)
R430 0.68 (1/2W)
R431 0.68 (1/2W)

COMPONENT NAME	CA_CY_DRV	15/19
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(15/19)		SCM26

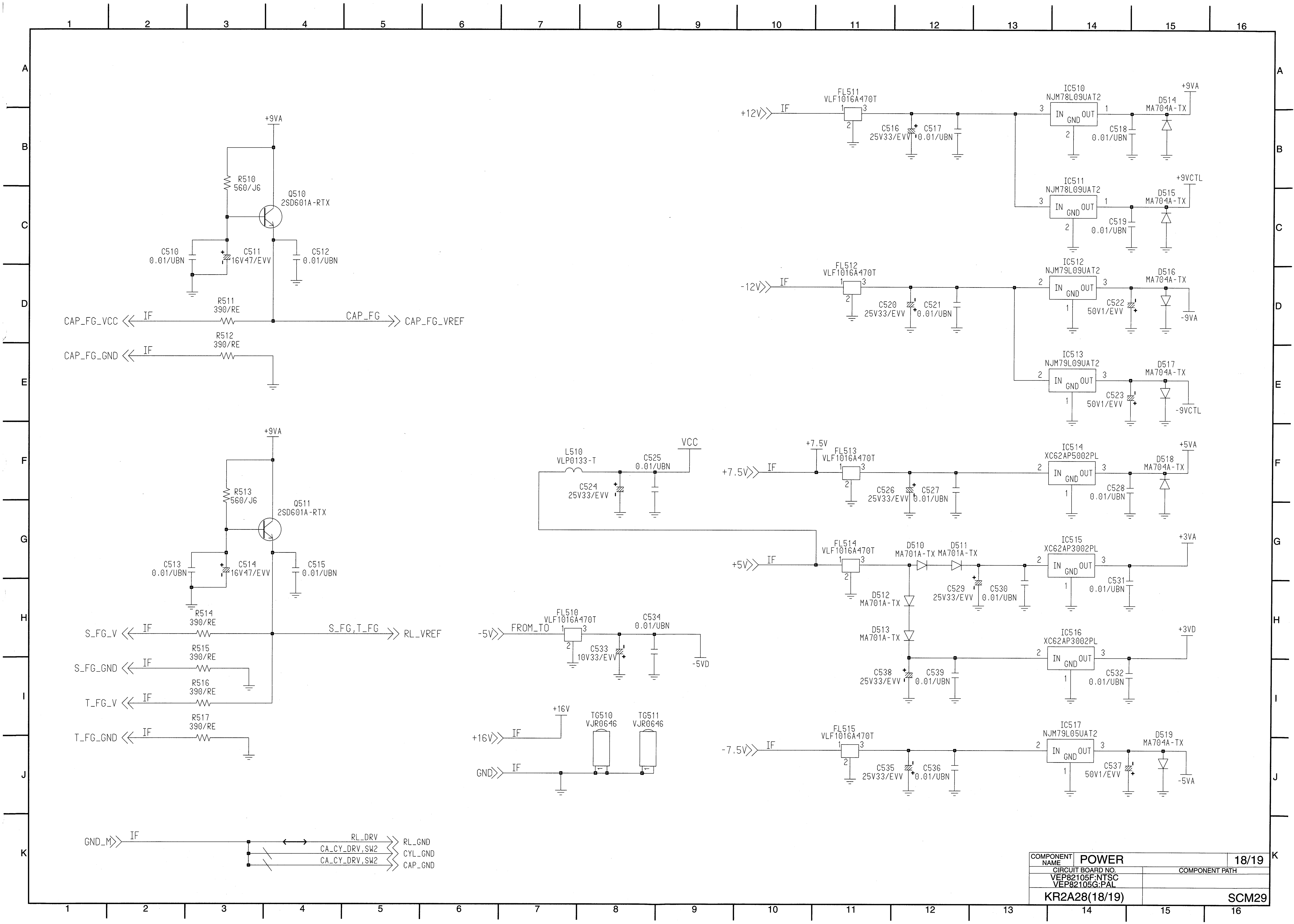


T_RL_ERR
AD_DA
R450
4700/RE
IC452
UPC4558G2-T1
+5VA
C451
0.01/UBN
TP450
VJR0646
R452
1000/J6
D450
MA152K-TX
C450
0.022/UBN
C452
0.01/UBN
R451
1200/RE
-5VA
R652
6800/RE
R653
1000/RE
C601
0.01/UBN
IC600
NJM2903M-T1
T_VM
SW1
VCC
R654
10K/J6
RL_DET
CPU4
R651
5600/J6
C600
0.01/UBN
R650
5600/J6
T_FB
SW1
T_RL_ON_L
CPU4
T_RL_DIR
CPU4
T_REEL(0:1)
D451
MA738-TX
D452
MA738-TX
C453
0.047/UBN
C454
0.047/UBN
C455
0.1/ZFN
C456
50V2R2/EVV
R453
33/J6
C457
0.1/ZFN
C458
50V2R2/EVV
R454
33/J6
C459
50V2R2/EVV
R455
33/J6
C460
0.1/ZFN
C461
0.047/UBN
D455
MA738-TX
D454
MA738-TX
IC450
AN3834K
D456
MA738-TX
D453
MA738-TX
A3
ATC
A2
VS
H3-
H3+
H2-
H2+
H1-
H1+
PFG
PCH
VM
A1
CS
PCV
GND
DS
PCI
TL
ET
ED
VH+
VCC
C462
4700P/UBN
C463
0.033/UBN
C464
4700P/UBN
C465
0.033/UBN
C466
4700P/UBN
C467
0.033/UBN
R456
2.2
(1/2W)
R457
2.2
(1/2W)
C468
0.1/UBN
+5VA
R458
39K/J6
R459
12K/J6
C469
0.1/UBN
C470
0.01/UBN
C471
16V10/EVV
C472
0.47/KBM
TR(0:11)
IF
TRM2
TRH1+
TRH1-
TRM3
TRH2+
TRH2-
TRM1
TRH3+
TRH3-
TRH_V+
TRH_V-
R460
270/J6
TP451
VJR0646
D457
MA152K-TX
R463
1000/J6
S_RL_ERR
R461
4700/RE
C473
0.022/UBN
R462
1200/RE
IC452
UPC4558G2-T1
-5VA
D458
MA738-TX
D459
MA738-TX
S_VM
RL_GND
POWER,SW1
S_FB
S_RL_ON_L
S_RL_DIR
S_REEL(0:1)
C474
0.047/UBN
C475
0.047/UBN
C476
0.1/ZFN
C477
50V2R2/EVV
R464
33/J6
C479
0.1/ZFN
C478
50V2R2/EVV
R465
33/J6
C480
50V2R2/EVV
R471
33/J6
C481
0.1/ZFN
C482
0.047/UBN
D462
MA738-TX
D461
MA738-TX
IC451
AN3834K
D463
MA738-TX
D460
MA738-TX
C483
4700P/UBN
C484
0.033/UBN
C485
4700P/UBN
C486
0.033/UBN
C487
4700P/UBN
C488
0.033/UBN
R466
2.2
(1/2W)
R467
2.2
(1/2W)
C489
0.1/UBN
R468
39K/J6
R469
12K/J6
C490
0.1/UBN
C491
0.01/UBN
C492
16V10/EVV
C493
0.47/KBM
SR(0:11)
SRH_V+
SRH_V-
R470
270/J6
SRM2
SRH1+
SRH1-
SRM3
SRH2+
SRH2-
SRM1
SRH3+
SRH3-

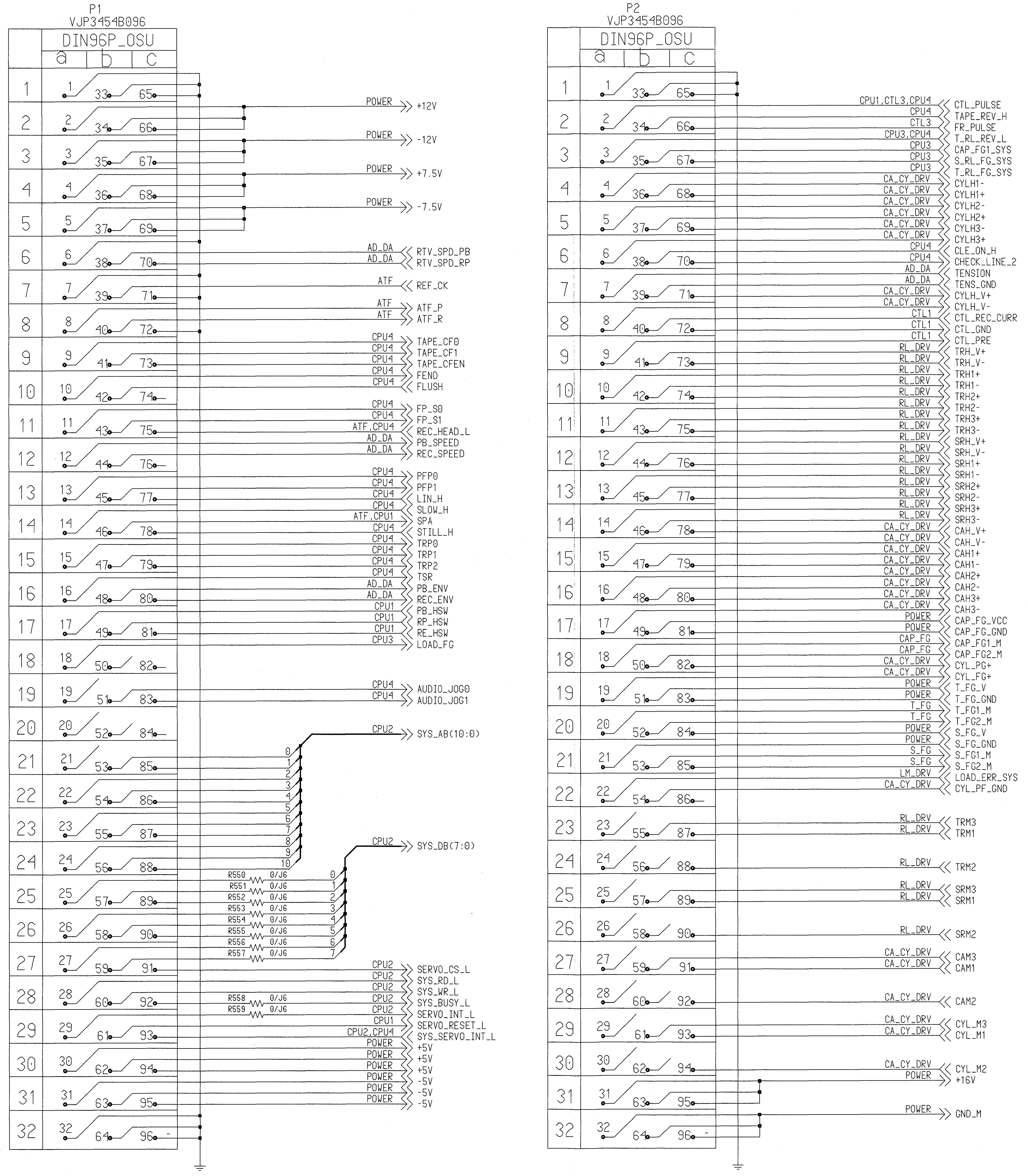
COMPONENT NAME	RL_DRV	16/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(16/19)	SCM27	


+16V
Q500
*PAT
TP500
*PAT
R505
*PAT/J6
R506
*PAT/J6
R502
*PAT/RE
R503
*PAT/RE
IF
LOAD_ERR_SYS
C502
*PAT/UBN
C503
*PAT/EVV
R507
*PAT/J6
VCC
R500
*PAT/J6
CTL_GAIN_ADJ
AD_DA
3
8
+
VCC
VEE
2
−
4
1
IC500
*PAT
R501
*PAT/J6
5
8
+
VCC
VEE
6
−
4
7
IC500
*PAT
R504
*PAT/J6
Q501
*PAT
-5VA
D500
*PAT
C500
*PAT/UBN
C501
*PAT/UBN
-5VA

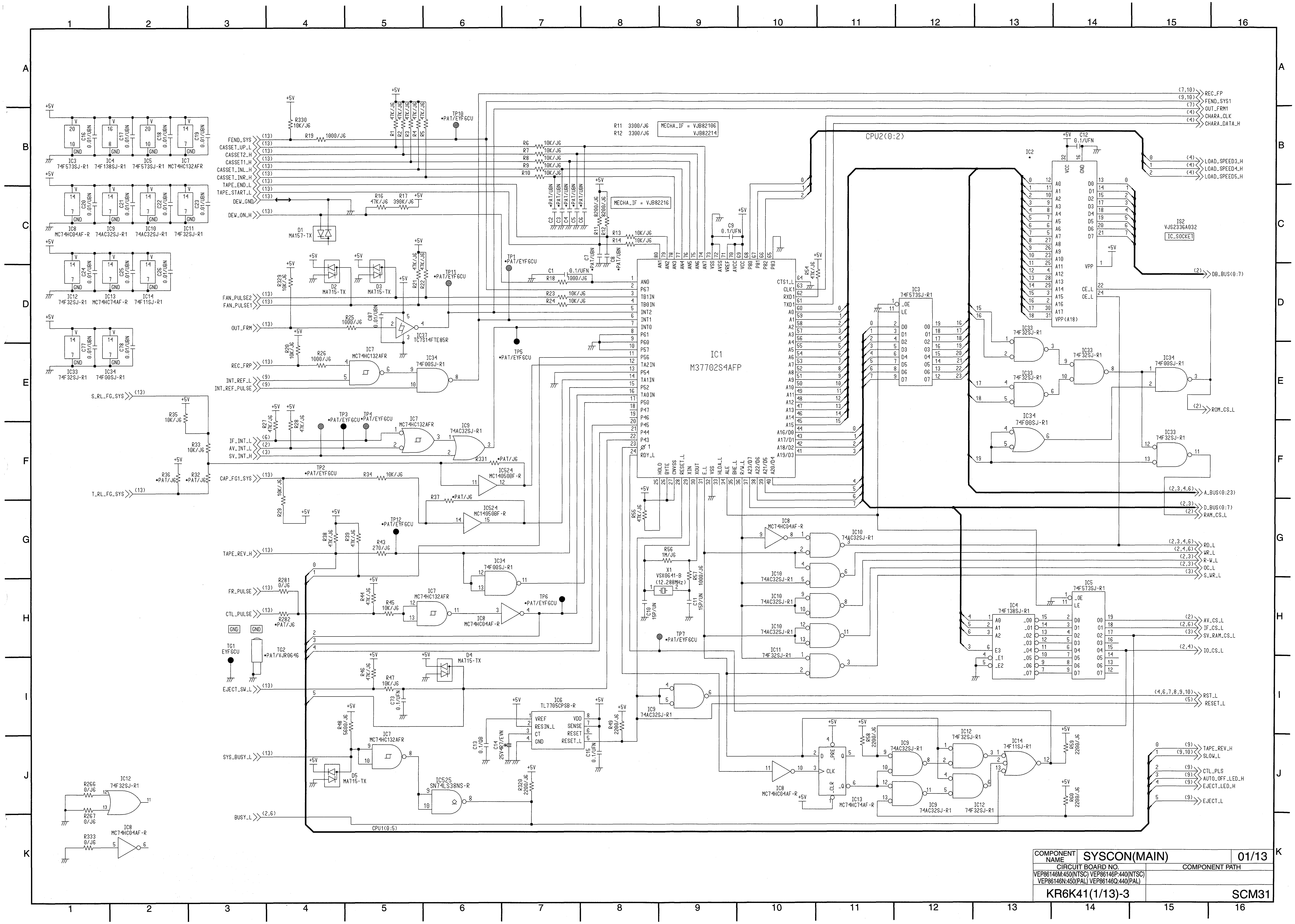
COMPONENT NAME	LM_DRV	17/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(17/19)	SCM28	


+9VA
R510
560/J6
Q510
2SD601A-RTX
C510
0.01/UBN
C511
16V47/EVV
C512
0.01/UBN
CAP_FG_VCC
IF
R511
390/RE
CAP_FG
CAP_FG_VREF
CAP_FG_GND
IF
R512
390/RE
+9VA
R513
560/J6
Q511
2SD601A-RTX
C513
0.01/UBN
C514
16V47/EVV
C515
0.01/UBN
S_FG_V
IF
R514
390/RE
S_FG,T_FG
RL_VREF
S_FG_GND
IF
R515
390/RE
T_FG_V
IF
R516
390/RE
T_FG_GND
IF
R517
390/RE
GND_M
IF
RL_DRV
RL_GND
CA_CY_DRV,SW2
CYL_GND
CA_CY_DRV,SW2
CAP_GND
L510
VLP0133-T
C525
0.01/UBN
VCC
C524
25V33/EVV
-5V
FROM_TO
FL510
VLF1016A470T
C534
0.01/UBN
C533
10V33/EVV
-5VD
+16V
IF
+16V
TG510
VJR0646
TG511
VJR0646
GND
IF
+12V
IF
FL511
VLF1016A470T
C516
25V33/EVV
C517
0.01/UBN
IC510
NJM78L09UAT2
IN
GND
OUT
C518
0.01/UBN
D514
MA704A-TX
+9VA
IC511
NJM78L09UAT2
C519
0.01/UBN
D515
MA704A-TX
+9VCTL
-12V
IF
FL512
VLF1016A470T
C520
25V33/EVV
C521
0.01/UBN
IC512
NJM79L09UAT2
C522
50V1/EVV
D516
MA704A-TX
-9VA
IC513
NJM79L09UAT2
C523
50V1/EVV
D517
MA704A-TX
-9VCTL
+7.5V
+7.5V
IF
FL513
VLF1016A470T
C526
25V33/EVV
C527
0.01/UBN
IC514
XC62AP5002PL
C528
0.01/UBN
D518
MA704A-TX
+5VA
+5V
IF
FL514
VLF1016A470T
D510
MA701A-TX
D511
MA701A-TX
C529
25V33/EVV
C530
0.01/UBN
IC515
XC62AP3002PL
C531
0.01/UBN
+3VA
D512
MA701A-TX
D513
MA701A-TX
C538
25V33/EVV
C539
0.01/UBN
IC516
XC62AP3002PL
C532
0.01/UBN
+3VD
-7.5V
IF
FL515
VLF1016A470T
C535
25V33/EVV
C536
0.01/UBN
IC517
NJM79L05UAT2
C537
50V1/EVV
D519
MA704A-TX
-5VA

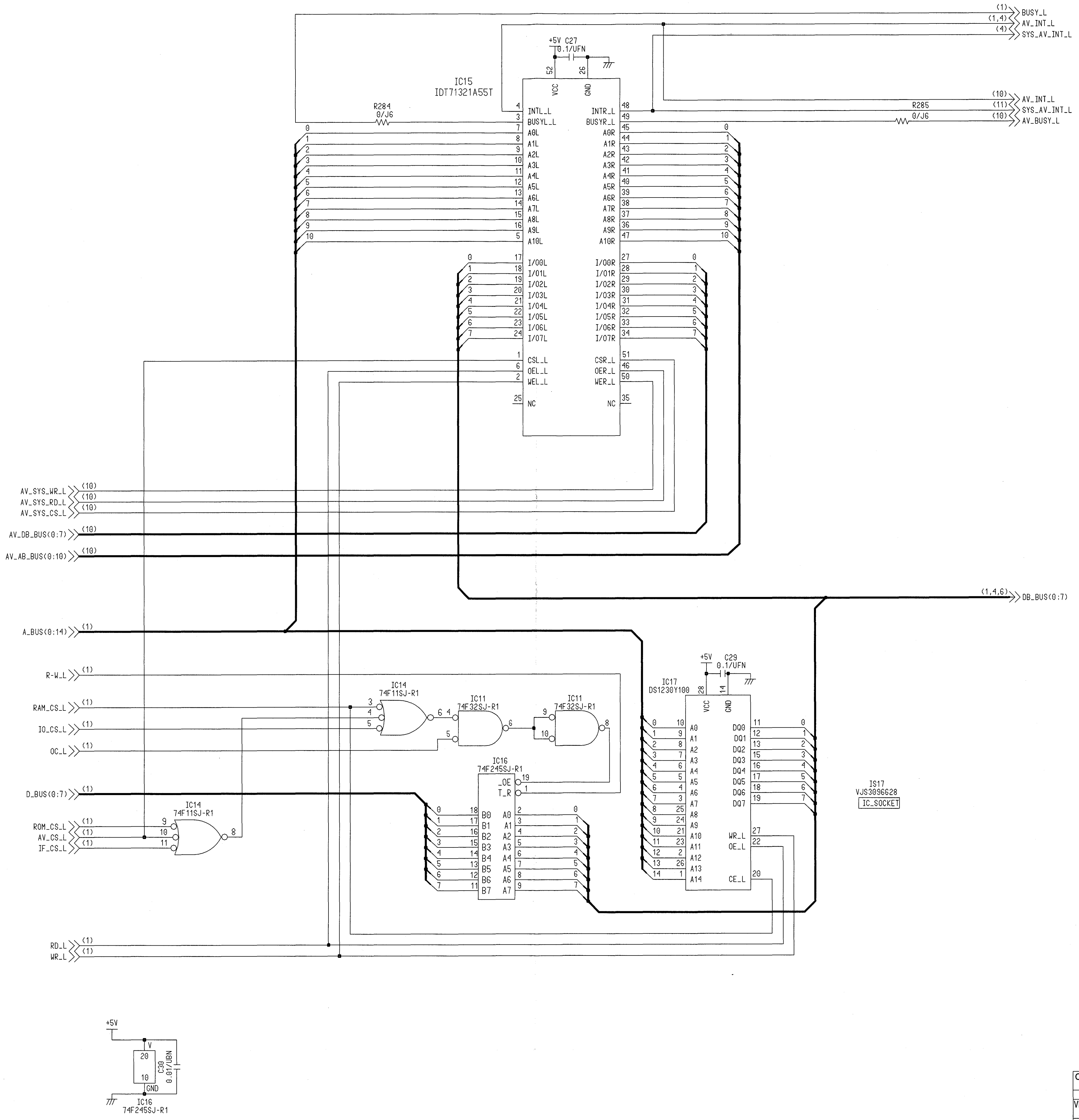
COMPONENT NAME	POWER	18/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(18/19)	SCM29	


P1
VJP3454B096
DIN96P_OSU
a b c
POWER +12V
POWER -12V
POWER +7.5V
POWER -7.5V
AD_DA RTV_SPD_PB
AD_DA RTV_SPD_RP
ATF REF_CK
ATF ATF_P
ATF ATF_R
CPU4 TAPE_CF0
CPU4 TAPE_CF1
CPU4 TAPE_CFEN
CPU4 FEND
CPU4 FLUSH
CPU4 FP_S0
CPU4 FP_S1
ATF,CPU4 REC_HEAD_L
AD_DA PB_SPEED
AD_DA REC_SPEED
CPU4 PFP0
CPU4 PFP1
CPU4 LIN_H
CPU4 SLOW_H
ATF,CPU1 SPA
CPU4 STILL_H
CPU4 TRP0
CPU4 TRP1
CPU4 TRP2
CPU4 TSR
AD_DA PB_ENV
AD_DA REC_ENV
CPU1 PB_HSW
CPU1 RP_HSW
CPU1 RE_HSW
CPU3 LOAD_FG
CPU4 AUDIO_JOG0
CPU4 AUDIO_JOG1
CPU2 SYS_AB(10:0)
CPU2 SYS_DB(7:0)
R550 0/J6
R551 0/J6
R552 0/J6
R553 0/J6
R554 0/J6
R555 0/J6
R556 0/J6
R557 0/J6
CPU2 SERVO_CS_L
CPU2 SYS_RD_L
CPU2 SYS_WR_L
R558 0/J6 CPU2 SYS_BUSY_L
R559 0/J6 CPU2 SERVO_INT_L
CPU1 SERVO_RESET_L
CPU2,CPU4 SYS_SERVO_INT_L
POWER +5V
POWER +5V
POWER +5V
POWER -5V
POWER -5V
POWER -5V
P2
VJP3454B096
DIN96P_OSU
a b c
CPU1,CTL3,CPU4 CTL_PULSE
CPU4 TAPE_REV_H
CTL3 FR_PULSE
CPU3,CPU4 T_RL_REV_L
CPU3 CAP_FG1_SYS
CPU3 S_RL_FG_SYS
CPU3 T_RL_FG_SYS
CA_CY_DRV CYLH1-
CA_CY_DRV CYLH1+
CA_CY_DRV CYLH2-
CA_CY_DRV CYLH2+
CA_CY_DRV CYLH3-
CA_CY_DRV CYLH3+
CPU4 CLE_ON_H
CPU4 CHECK_LINE_2
AD_DA TENSION
AD_DA TENS_GND
CA_CY_DRV CYLH_V+
CA_CY_DRV CYLH_V-
CTL1 CTL_REC_CURR
CTL1 CTL_GND
CTL1 CTL_PRE
RL_DRV TRH_V+
RL_DRV TRH_V-
RL_DRV TRH1+
RL_DRV TRH1-
RL_DRV TRH2+
RL_DRV TRH2-
RL_DRV TRH3+
RL_DRV TRH3-
RL_DRV SRH_V+
RL_DRV SRH_V-
RL_DRV SRH1+
RL_DRV SRH1-
RL_DRV SRH2+
RL_DRV SRH2-
RL_DRV SRH3+
RL_DRV SRH3-
CA_CY_DRV CAH_V+
CA_CY_DRV CAH_V-
CA_CY_DRV CAH1+
CA_CY_DRV CAH1-
CA_CY_DRV CAH2+
CA_CY_DRV CAH2-
CA_CY_DRV CAH3+
CA_CY_DRV CAH3-
POWER CAP_FG_VCC
POWER CAP_FG_GND
CAP_FG CAP_FG1_M
CAP_FG CAP_FG2_M
CA_CY_DRV CYL_PG+
CA_CY_DRV CYL_FG+
POWER T_FG_V
POWER T_FG_GND
T_FG T_FG1_M
T_FG T_FG2_M
POWER S_FG_V
POWER S_FG_GND
S_FG S_FG1_M
S_FG S_FG2_M
LM_DRV LOAD_ERR_SYS
CA_CY_DRV CYL_PF_GND
RL_DRV TRM3
RL_DRV TRM1
RL_DRV TRM2
RL_DRV SRM3
RL_DRV SRM1
RL_DRV SRM2
CA_CY_DRV CAM3
CA_CY_DRV CAM1
CA_CY_DRV CAM2
CA_CY_DRV CYL_M3
CA_CY_DRV CYL_M1
CA_CY_DRV CYL_M2
POWER +16V
POWER GND_M

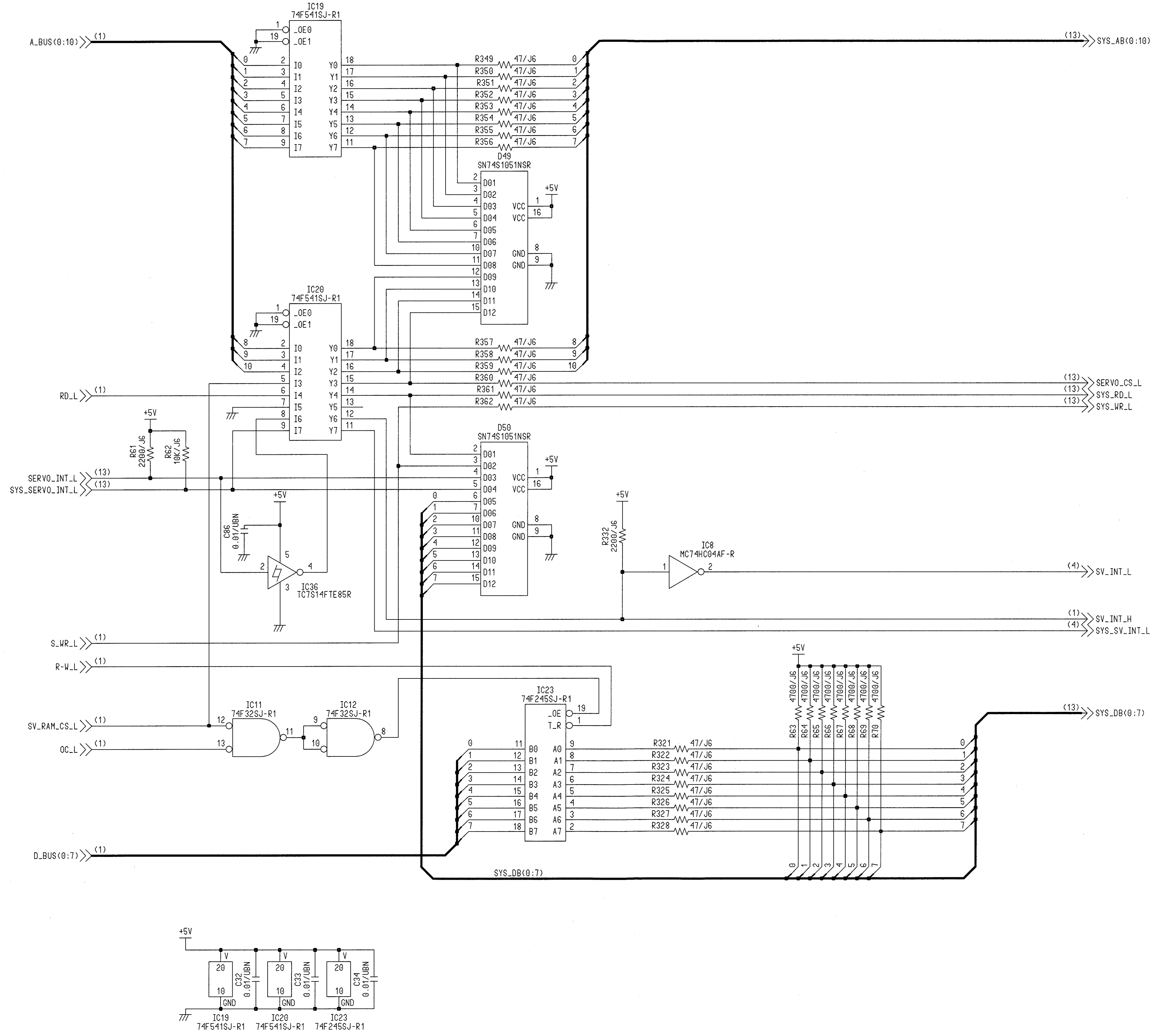
COMPONENT NAME	IF	19/19
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82105F:NTSC VEP82105G:PAL		
KR2A28(19/19)	SCM30	


FEND_SYS
CASSET_UP_L
CASSET2_H
CASSET1_H
CASSET_INL_H
CASSET_INR_H
TAPE_END_L
TAPE_START_L
DEW_GND
DEW_ON_H
FAN_PULSE2
FAN_PULSE1
OUT_FRM
REC_FRP
INT_REF_L
INT_REF_PULSE
S_RL_FG_SYS
IF_INT_L
AV_INT_L
SV_INT_H
CAP_FG1_SYS
T_RL_FG_SYS
TAPE_REV_H
FR_PULSE
CTL_PULSE
EJECT_SW_L
SYS_BUSY_L
BUSY_L
IC1
M37702S4AFP
IC3 74F573SJ-R1
IC4 74F138SJ-R1
IC5 74F573SJ-R1
IC6 TL7705CPSB-R
IC7 MC74HC132AFR
IC8 MC74HC04AF-R
IC9 74AC32SJ-R1
IC10 74AC32SJ-R1
IC11 74F32SJ-R1
IC12 74F32SJ-R1
IC13 MC74HC74AF-R
IC14 74F11SJ-R1
IC33 74F32SJ-R1
IC34 74F00SJ-R1
IC37 TC7S14FTE85R
IC524 MC14050BF-R
IC525 SN74LS38NS-R
IS2 VJS2336A032 IC_SOCKET
X1 VSX0641-B (12.288MHz)
MECHA_IF = VJB82106 VJB82214
MECHA_IF = VJB82216
CPU2(0:2)
CPU1(0:5)
REC_FP
FEND_SYS1
OUT_FRM1
CHARA_CLK
CHARA_DATA_H
LOAD_SPEED3_H
LOAD_SPEED4_H
LOAD_SPEED5_H
DB_BUS(0:7)
ROM_CS_L
A_BUS(0:23)
D_BUS(0:7)
RAM_CS_L
RD_L
WR_L
R-W_L
OC_L
S_WR_L
AV_CS_L
IF_CS_L
SV_RAM_CS_L
IO_CS_L
RST_L
RESET_L
TAPE_REV_H
SLOW_L
CTL_PLS
AUTO_OFF_LED_H
EJECT_LED_H
EJECT_L
+5V
GND

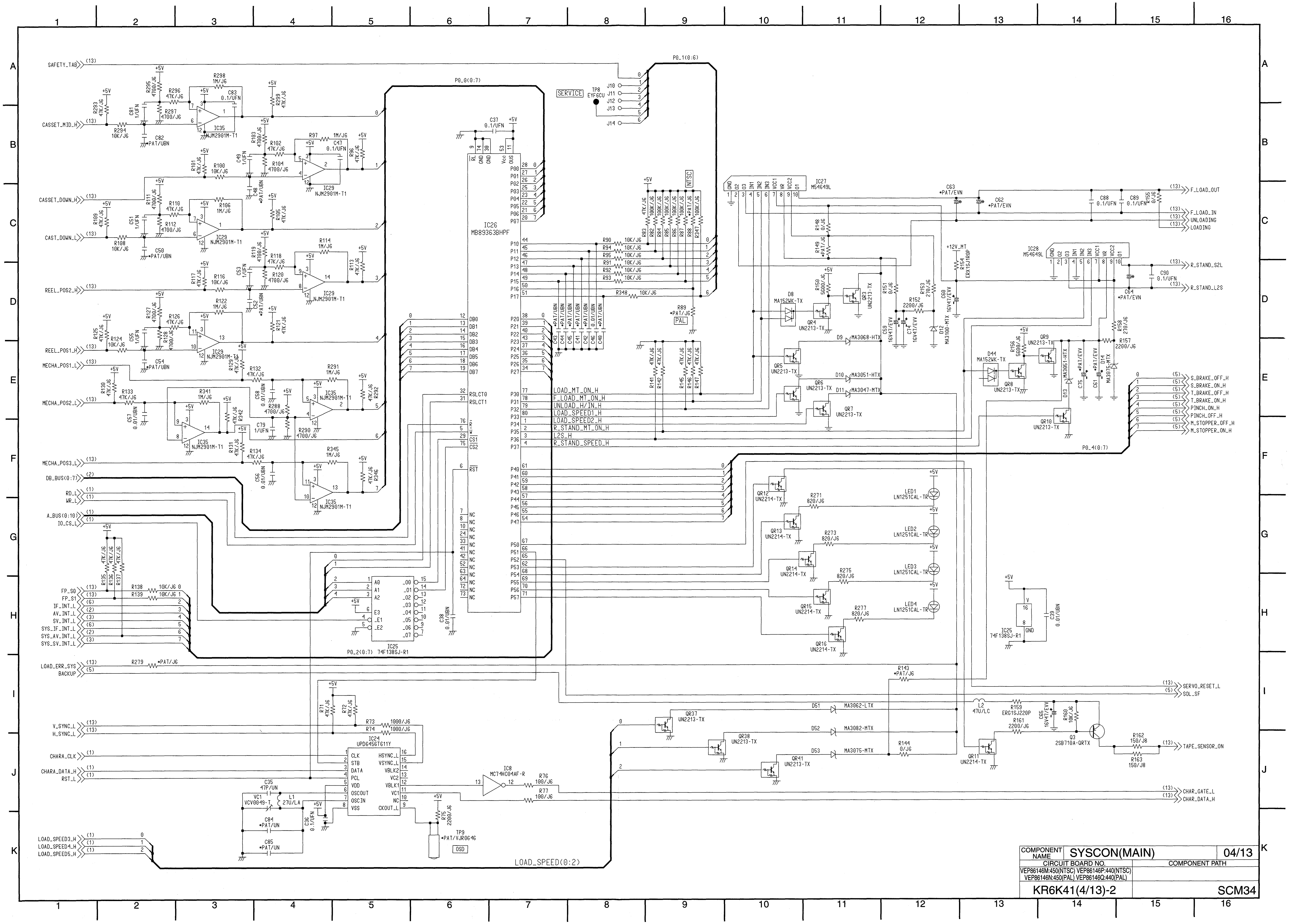
COMPONENT NAME	SYSCON(MAIN)	01/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(1/13)-3		SCM31


BUSY_L
AV_INT_L
SYS_AV_INT_L
AV_INT_L
SYS_AV_INT_L
AV_BUSY_L
+5V C27 0.1/UFN
IC15
IDT71321A55T
R284 0/J6
R285 0/J6
INTL_L
BUSYL_L
INTR_L
BUSYR_L
A0L A1L A2L A3L A4L A5L A6L A7L A8L A9L A10L
A0R A1R A2R A3R A4R A5R A6R A7R A8R A9R A10R
I/O0L I/O1L I/O2L I/O3L I/O4L I/O5L I/O6L I/O7L
I/O0R I/O1R I/O2R I/O3R I/O4R I/O5R I/O6R I/O7R
CSL_L OEL_L WEL_L
CSR_L OER_L WER_L
NC
VCC GND
AV_SYS_WR_L
AV_SYS_RD_L
AV_SYS_CS_L
AV_DB_BUS(0:7)
AV_AB_BUS(0:10)
DB_BUS(0:7)
A_BUS(0:14)
R-W_L
RAM_CS_L
IO_CS_L
OC_L
D_BUS(0:7)
ROM_CS_L
AV_CS_L
IF_CS_L
RD_L
WR_L
IC14 74F11SJ-R1
IC11 74F32SJ-R1
IC11 74F32SJ-R1
IC14 74F11SJ-R1
IC16 74F245SJ-R1
_OE
T_R
B0 B1 B2 B3 B4 B5 B6 B7
A0 A1 A2 A3 A4 A5 A6 A7
+5V C29 0.1/UFN
IC17
DS1230Y100
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7
WR_L OE_L CE_L
IS17
VJS3096628
IC_SOCKET
+5V
C30 0.01/UBN
IC16
74F245SJ-R1

COMPONENT NAME	SYSCON(MAIN)	02/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(2/13)-2	SCM32	


IC19
74F541SJ-R1
A_BUS(0:10)
(1)
_OE0
_OE1
SYS_AB(0:10)
(13)
R349 47/J6
R350 47/J6
R351 47/J6
R352 47/J6
R353 47/J6
R354 47/J6
R355 47/J6
R356 47/J6
D49
SN74S1051NSR
VCC
GND
+5V
IC20
74F541SJ-R1
R357 47/J6
R358 47/J6
R359 47/J6
R360 47/J6
R361 47/J6
R362 47/J6
SERVO_CS_L
SYS_RD_L
SYS_WR_L
RD_L
R61 2200/J6
R62 10K/J6
SERVO_INT_L
SYS_SERVO_INT_L
D50
SN74S1051NSR
C36 0.01/UBN
IC36
TC7S14FTE85R
R332 2200/J6
IC8
MC74HC04AF-R
SV_INT_L
SV_INT_H
SYS_SV_INT_L
S_WR_L
R-W_L
SV_RAM_CS_L
OC_L
IC11
74F32SJ-R1
IC12
74F32SJ-R1
IC23
74F245SJ-R1
_OE
T_R
R321 47/J6
R322 47/J6
R323 47/J6
R324 47/J6
R325 47/J6
R326 47/J6
R327 47/J6
R328 47/J6
R63 4700/J6
R64 4700/J6
R65 4700/J6
R66 4700/J6
R67 4700/J6
R68 4700/J6
R69 4700/J6
R70 4700/J6
SYS_DB(0:7)
D_BUS(0:7)
C32 0.01/UBN
C33 0.01/UBN
C34 0.01/UBN
IC19 74F541SJ-R1
IC20 74F541SJ-R1
IC23 74F245SJ-R1

COMPONENT NAME	SYSCON(MAIN)	03/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(3/13)-2		SCM33

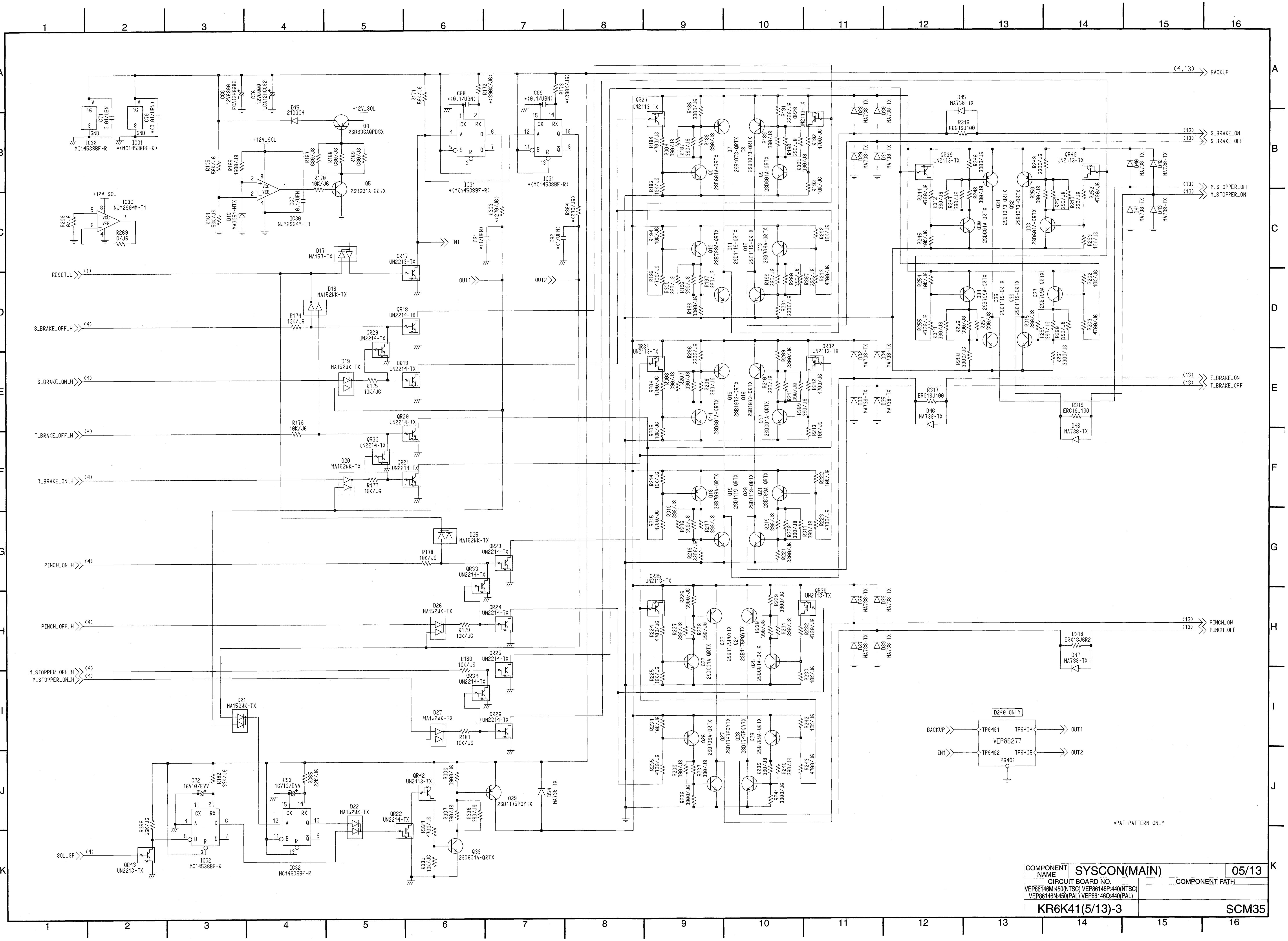

SAFETY_TAB
CASSET_MID_H
CASSET_DOWN_H
CAST_DOWN_L
REEL_POS2_H
REEL_POS1_H
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
DB_BUS(0:7)
RD_L
WR_L
A_BUS(0:10)
IO_CS_L
FP_S0
FP_S1
IF_INT_L
AV_INT_L
SV_INT_L
SYS_IF_INT_L
SYS_AV_INT_L
SYS_SV_INT_L
LOAD_ERR_SYS
BACKUP
V_SYNC_L
H_SYNC_L
CHARA_CLK
CHARA_DATA_H
RST_L
LOAD_SPEED3_H
LOAD_SPEED4_H
LOAD_SPEED5_H
LOAD_SPEED(0:2)
IC29 NJM2901M-T1
IC35 NJM2901M-T1
IC26 MB89363BHPF
IC25 74F138SJ-R1
IC24 UPD6456TG11Y
IC8 MC74HC04AF-R
IC27 M54649L
IC28 M54649L
P0_0(0:7)
P0_1(0:6)
P0_2(0:7)
P0_4(0:7)
SERVICE
TP8 EYF6CU
J10
J11
J12
J13
J14
NTSC
PAL
R89 •PAT/J6
TP9 •PAT/VJR0646
OSD
VC1 VCV0049-T
L1 27U/LA
LOAD_MT_ON_H
F_LOAD_MT_ON_H
UNLOAD_H/IN_H
LOAD_SPEED1_H
LOAD_SPEED2_H
R_STAND_MT_ON_H
L2S_H
R_STAND_SPEED_H
F_LOAD_OUT
F_LOAD_IN
UNLOADING
LOADING
R_STAND_S2L
R_STAND_L2S
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
LED1 LN1251CAL-TR
LED2 LN1251CAL-TR
LED3 LN1251CAL-TR
LED4 LN1251CAL-TR
QR12 UN2214-TX
QR13 UN2214-TX
QR14 UN2214-TX
QR15 UN2214-TX
QR16 UN2214-TX
SERVO_RESET_L
SOL_SF
TAPE_SENSOR_ON
CHAR_GATE_L
CHAR_DATA_H
Q3 2SB710A-QRTX
QR11 UN2214-TX
QR37 UN2213-TX
QR38 UN2213-TX
QR41 UN2213-TX
D51 MA3062-LTX
D52 MA3082-MTX
D53 MA3075-MTX
L2 47U/LC
R159 ERG1SJ220P
+12V_MT
R154 ERX1SJ1R0P
D8 MA152WK-TX
D44 MA152WK-TX
D9 MA3068-HTX
D10 MA3051-HTX
D11 MA3047-MTX
D12 MA3100-MTX
D13 MA3051-HTX
D14 MA3075-MTX
QR4 UN2213-TX
QR5 UN2213-TX
QR6 UN2213-TX
QR7 UN2213-TX
QR8 UN2213-TX
QR9 UN2213-TX
QR10 UN2213-TX
QR23 UN2213-TX
+5V

COMPONENT NAME SYSCON(MAIN) 04/13

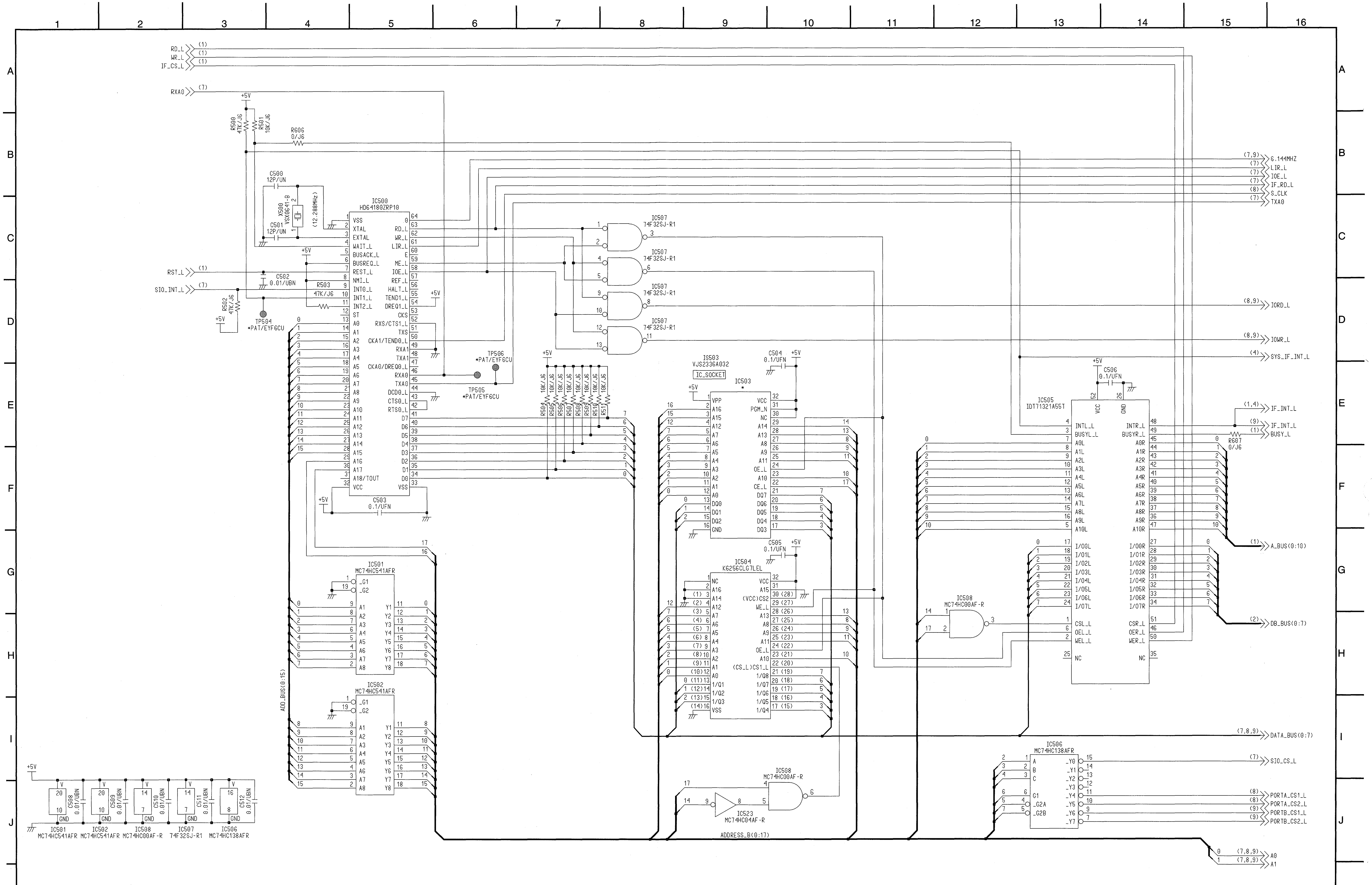
CIRCUIT BOARD NO. COMPONENT PATH

VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)

KR6K41(4/13)-2 SCM34

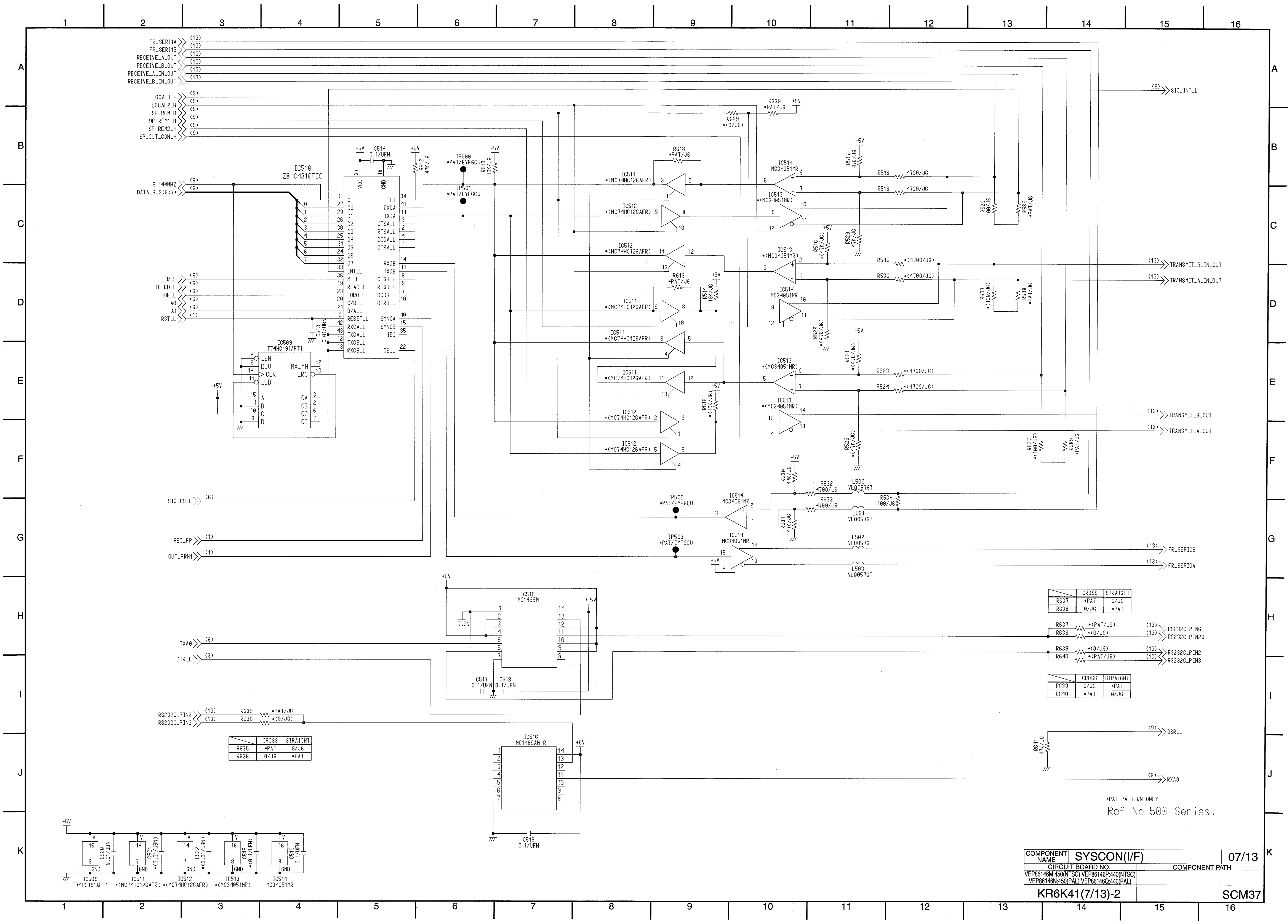

BACKUP (4,13)
S_BRAKE_ON (13)
S_BRAKE_OFF (13)
M_STOPPER_OFF (13)
M_STOPPER_ON (13)
T_BRAKE_ON (13)
T_BRAKE_OFF (13)
PINCH_ON (13)
PINCH_OFF (13)
RESET_L (1)
S_BRAKE_OFF_H (4)
S_BRAKE_ON_H (4)
T_BRAKE_OFF_H (4)
T_BRAKE_ON_H (4)
PINCH_ON_H (4)
PINCH_OFF_H (4)
M_STOPPER_OFF_H (4)
M_STOPPER_ON_H (4)
SOL_SF (4)
IN1
OUT1
OUT2
+12V_SOL
IC32 MC14538BF-R
IC31 *(MC14538BF-R)
IC30 NJM2904M-T1
Q4 2SB936AQPDSX
Q5 2SD601A-QRTX
D15 21DQ04
D16 MA3051-HTX
D17 MA157-TX
D18 MA152WK-TX
D45 MA738-TX
R316 ERG1SJ100
R317 ERG1SJ100
R319 ERG1SJ100
R318 ERX1SJ6R2
Q39 2SB1175PQYTX
Q38 2SD601A-QRTX
D54 MA738-TX
D240 ONLY
TP6401
TP6402
TP6404
TP6405
VEP86277
P6401
*PAT=PATTERN ONLY

COMPONENT NAME	SYSCON(MAIN)	05/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(5/13)-3		SCM35


RD_L (1)
WR_L (1)
IF_CS_L (1)
RXA0 (7)
RST_L (1)
SIO_INT_L (7)
+5V
R500 47K/J6
R501 10K/J6
R606 0/J6
R502 47K/J6
R503 47K/J6
C500 12P/UN
C501 12P/UN
X500 VSX0641-B (12.288MHz)
C502 0.01/UBN
C503 0.1/UFN
TP504 *PAT/EYF6CU
TP505 *PAT/EYF6CU
TP506 *PAT/EYF6CU
IC500 HD64180ZRP10
VSS XTAL EXTAL WAIT_L BUSACK_L BUSREQ_L REST_L NMI_L INT0_L INT1_L INT2_L ST A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18/TOUT VCC
0 RD_L WR_L LIR_L E ME_L IOE_L REF_L HALT_L TEND1_L DREQ1_L CKS RXS/CTS1_L TXS CKA1/TEND0_L RXA1 TXA1 CKA0/DREQ0_L RXA0 TXA0 DCD0_L CTS0_L RTS0_L D7 D6 D5 D4 D3 D2 D1 D0 VSS
IC507 74F32SJ-R1
R504 R505 R506 R507 R508 R509 R510 R511 10K/J6
IS503 VJS2336A032 IC_SOCKET
IC503
VPP A16 A15 A12 A7 A6 A5 A4 A3 A2 A1 A0 DQ0 DQ1 DQ2 GND
VCC PGM_N NC A14 A13 A8 A9 A11 OE_L A10 CE_L DQ7 DQ6 DQ5 DQ4 DQ3
C504 0.1/UFN
C505 0.1/UFN
IC504 K6256CLG7LEL
NC A16 A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 I/Q1 I/Q2 I/Q3 VSS
VCC A15 (VCC)CS2 WE_L A13 A8 A9 A11 OE_L A10 (CS_L)CS1_L I/Q8 I/Q7 I/Q6 I/Q5 I/Q4
IC501 MC74HC541AFR
IC502 MC74HC541AFR
_G1 _G2 A1 A2 A3 A4 A5 A6 A7 A8 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
ADD_BUS(0:15)
IC508 MC74HC00AF-R
IC523 MC74HC04AF-R
ADDRESS_B(0:17)
C506 0.1/UFN
IC505 IDT71321A55T
VCC GND
INTL_L BUSYL_L A0L A1L A2L A3L A4L A5L A6L A7L A8L A9L A10L I/O0L I/O1L I/O2L I/O3L I/O4L I/O5L I/O6L I/O7L CSL_L OEL_L WEL_L NC
INTR_L BUSYR_L A0R A1R A2R A3R A4R A5R A6R A7R A8R A9R A10R I/O0R I/O1R I/O2R I/O3R I/O4R I/O5R I/O6R I/O7R CSR_L OER_L WER_L NC
R607 0/J6
IC506 MC74HC138AFR
A B C G1 _G2A _G2B _Y0 _Y1 _Y2 _Y3 _Y4 _Y5 _Y6 _Y7
(7,9) 6.144MHZ
(7) LIR_L
(7) IOE_L
(7) IF_RD_L
(8) S_CLK
(7) TXA0
(8,9) IORD_L
(8,9) IOWR_L
(4) SYS_IF_INT_L
(1,4) IF_INT_L
(9) IF_INT_L
(1) BUSY_L
(1) A_BUS(0:10)
(2) DB_BUS(0:7)
(7,8,9) DATA_BUS(0:7)
(7) SIO_CS_L
(8) PORTA_CS1_L
(8) PORTA_CS2_L
(9) PORTB_CS1_L
(9) PORTB_CS2_L
(7,8,9) A0
(7,8,9) A1
C508 0.01/UBN
C509 0.01/UBN
C510 0.01/UBN
C511 0.01/UBN
C512 0.01/UBN
IC501 MC74HC541AFR
IC502 MC74HC541AFR
IC508 MC74HC00AF-R
IC507 74F32SJ-R1
IC506 MC74HC138AFR
V GND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

Ref No.500 Series.

COMPONENT NAME	SYSCON(I/F)	06/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(6/13)-3		SCM36


FR_SERI1A
FR_SERI1B
RECEIVE_A_OUT
RECEIVE_B_OUT
RECEIVE_A_IN_OUT
RECEIVE_B_IN_OUT
LOCAL1_H
LOCAL2_H
9P_REM_H
9P_REM1_H
9P_REM2_H
9P_OUT_CON_H
6.144MHZ
DATA_BUS(0:7)
LIR_L
IF_RD_L
IOE_L
A0
A1
RST_L
SIO_CS_L
REC_FP
OUT_FRM1
TXA0
DTR_L
RS232C_PIN2
RS232C_PIN3
IC510
Z84C4310FEC
IC509
T74HC191AFT1
C514 0.1/UFN
R512 4.7K/J6
TP500 *PAT/EYF6CU
TP501 *PAT/EYF6CU
R513 10K/J6
C513 0.01/UBN
IC511 *(MC74HC126AFR)
IC512 *(MC74HC126AFR)
IC513 *(MC34051MR)
IC514 MC34051MR
R618 *PAT/J6
R619 *PAT/J6
R629 *(0/J6)
R630 *PAT/J6
R514 10K/J6
R515 *(10K/J6)
R516 *(47K/J6)
R517 47K/J6
R518 4700/J6
R519 4700/J6
R520 100/J6
R588 *PAT/J6
R521 *(47K/J6)
R523 *(4700/J6)
R524 *(4700/J6)
R525 *(47K/J6)
R527 *(100/J6)
R589 *PAT/J6
R528 *(47K/J6)
R529 47K/J6
R535 *(4700/J6)
R536 *(4700/J6)
R537 *(100/J6)
R538 *PAT/J6
R530 47K/J6
R531 47K/J6
R532 4700/J6
R533 4700/J6
R534 100/J6
L500 VLQ0576T
L501 VLQ0576T
L502 VLQ0576T
L503 VLQ0576T
TP502 *PAT/EYF6CU
TP503 *PAT/EYF6CU
SIO_INT_L
TRANSMIT_B_IN_OUT
TRANSMIT_A_IN_OUT
TRANSMIT_B_OUT
TRANSMIT_A_OUT
FR_SERI0B
FR_SERI0A
IC515 MC1488M
C517 0.1/UFN
C518 0.1/UFN
IC516 MC1489AM-R
C519 0.1/UFN
R635 *PAT/J6
R636 *(0/J6)
R637 *(PAT/J6)
R638 *(0/J6)
R639 *(0/J6)
R640 *(PAT/J6)
RS232C_PIN6
RS232C_PIN20
RS232C_PIN2
RS232C_PIN3
R641 47K/J6
DSR_L
RXA0
C520 0.01/UBN
C521 *(0.01/UBN)
C522 *(0.01/UBN)
C515 *(0.1/UFN)
C516 0.1/UFN
IC509 T74HC191AFT1
IC511 *(MC74HC126AFR)
IC512 *(MC74HC126AFR)
IC513 *(MC34051MR)
IC514 MC34051MR
+5V
+7.5V
-7.5V

	CROSS	STRAIGHT
R635	*PAT	0/J6
R636	0/J6	*PAT

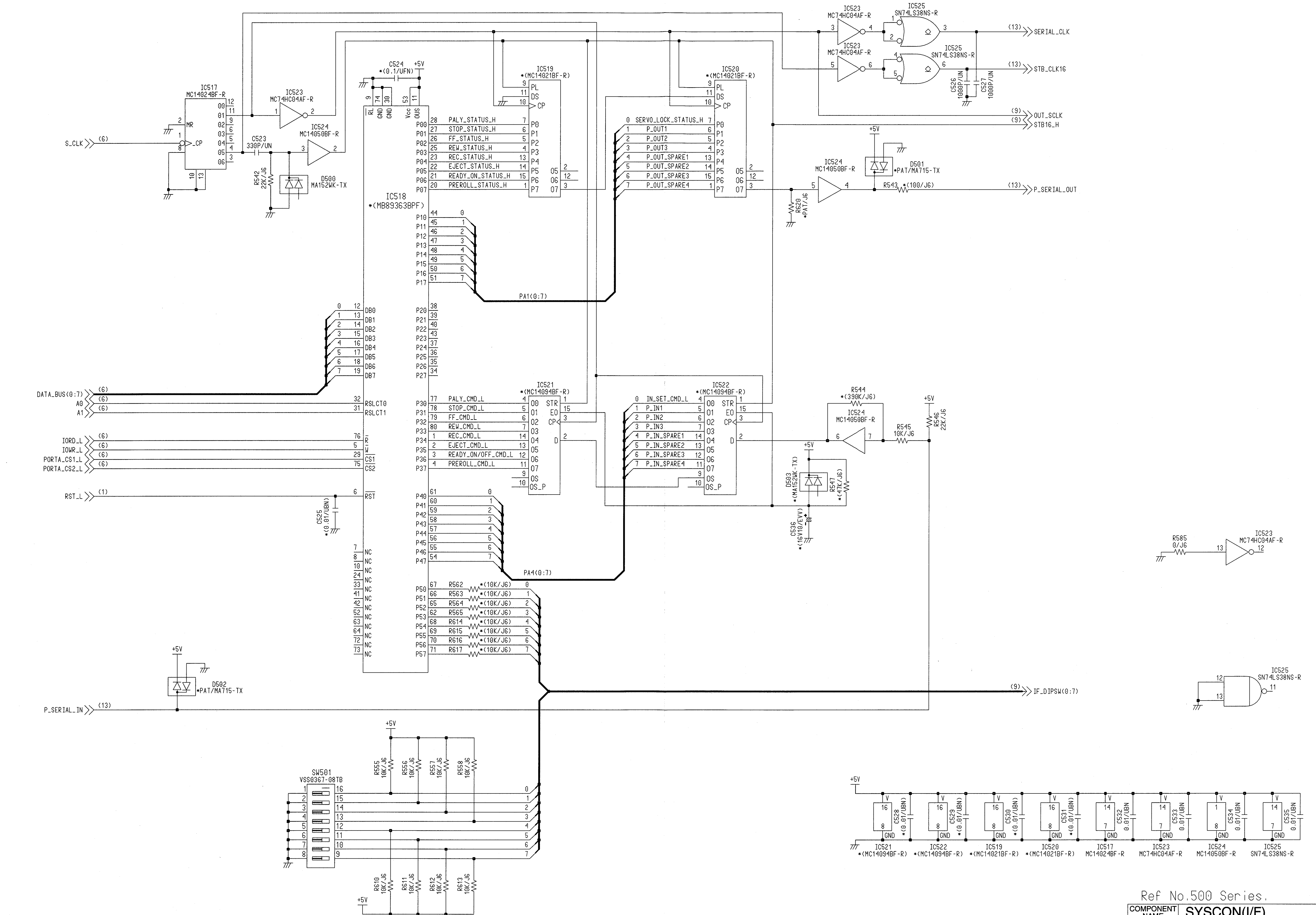
	CROSS	STRAIGHT
R637	*PAT	0/J6
R638	0/J6	*PAT

	CROSS	STRAIGHT
R639	0/J6	*PAT
R640	*PAT	0/J6

*PAT=PATTERN ONLY

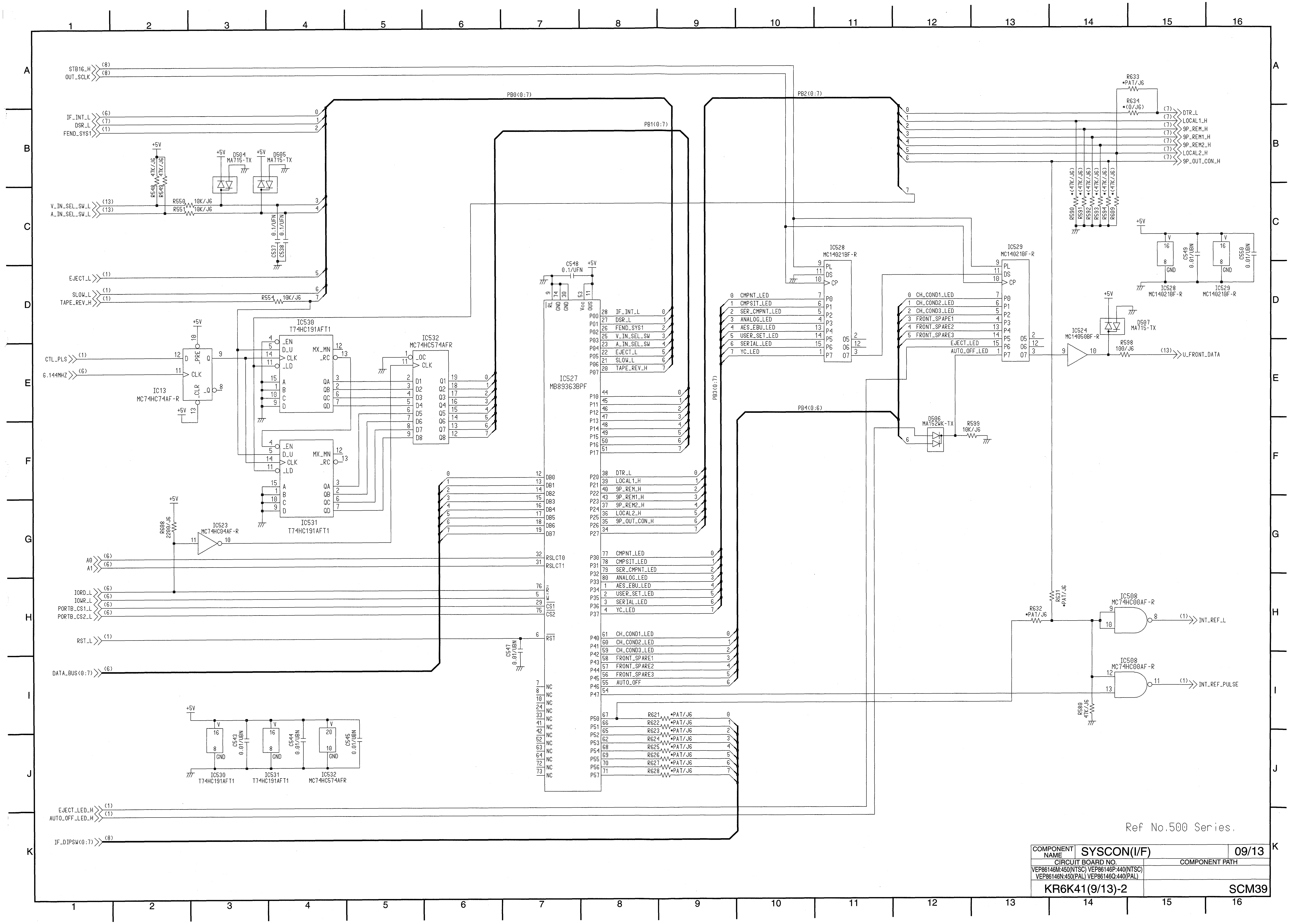
Ref No.500 Series.

COMPONENT NAME	SYSCON(I/F)	07/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(7/13)-2		SCM37


IC517
MC14024BF-R
S_CLK
(6)
MR
CP
IC523
MC74HC04AF-R
C523
330P/UN
IC524
MC14050BF-R
R542
22K/J6
D500
MA152WK-TX
C524
*(0.1/UFN)
+5V
IC518
*(MB89363BPF)
RL
GND
Vcc
OUS
P00
P01
P02
P03
P04
P05
P06
P07
PALY_STATUS_H
STOP_STATUS_H
FF_STATUS_H
REW_STATUS_H
REC_STATUS_H
EJECT_STATUS_H
READY_ON_STATUS_H
PREROLL_STATUS_H
IC519
*(MC14021BF-R)
PL
DS
CP
IC520
*(MC14021BF-R)
SERVO_LOCK_STATUS_H
P_OUT1
P_OUT2
P_OUT3
P_OUT_SPARE1
P_OUT_SPARE2
P_OUT_SPARE3
P_OUT_SPARE4
IC523
MC74HC04AF-R
IC525
SN74LS38NS-R
(13) SERIAL_CLK
(13) STB_CLK16
C526
1000P/UN
C527
1000P/UN
(9) OUT_SCLK
(9) STB16_H
+5V
D501
*PAT/MA715-TX
IC524
MC14050BF-R
R543 *(100/J6)
(13) P_SERIAL_OUT
R620
*PAT/J6
PA1(0:7)
DATA_BUS(0:7)
A0
A1
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
RSLCT0
RSLCT1
IORD_L
IOWR_L
PORTA_CS1_L
PORTA_CS2_L
CS1
CS2
RST_L
RST
(1)
C525
*(0.01/UBN)
NC
P30
P31
P32
P33
P34
P35
P36
P37
PALY_CMD_L
STOP_CMD_L
FF_CMD_L
REW_CMD_L
REC_CMD_L
EJECT_CMD_L
READY_ON/OFF_CMD_L
PREROLL_CMD_L
IC521
*(MC14094BF-R)
STR
EO
CP
D
OS
OS_P
IC522
*(MC14094BF-R)
IN_SET_CMD_L
P_IN1
P_IN2
P_IN3
P_IN_SPARE1
P_IN_SPARE2
P_IN_SPARE3
P_IN_SPARE4
R544
*(390K/J6)
IC524
MC14050BF-R
R545
10K/J6
R546
22K/J6
+5V
D503
*(MA152WK-TX)
R547
*(47K/J6)
C536
*(16V10/EVV)
P40
P41
P42
P43
P44
P45
P46
P47
PA4(0:7)
P50
P51
P52
P53
P54
P55
P56
P57
R562
R563
R564
R565
R614
R615
R616
R617
*(10K/J6)
R585
0/J6
IC523
MC74HC04AF-R
IC525
SN74LS38NS-R
+5V
D502
*PAT/MA715-TX
P_SERIAL_IN
(13)
(9) IF_DIPSW(0:7)
+5V
R555
10K/J6
R556
10K/J6
R557
10K/J6
R558
10K/J6
SW501
VSS0367-08TB
R610
10K/J6
R611
10K/J6
R612
10K/J6
R613
10K/J6
+5V
C528
*(0.01/UBN)
C529
*(0.01/UBN)
C530
*(0.01/UBN)
C531
*(0.01/UBN)
C532
0.01/UBN
C533
0.01/UBN
C534
0.01/UBN
C535
0.01/UBN
GND
IC521
*(MC14094BF-R)
IC522
*(MC14094BF-R)
IC519
*(MC14021BF-R)
IC520
*(MC14021BF-R)
IC517
MC14024BF-R
IC523
MC74HC04AF-R
IC524
MC14050BF-R
IC525
SN74LS38NS-R
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

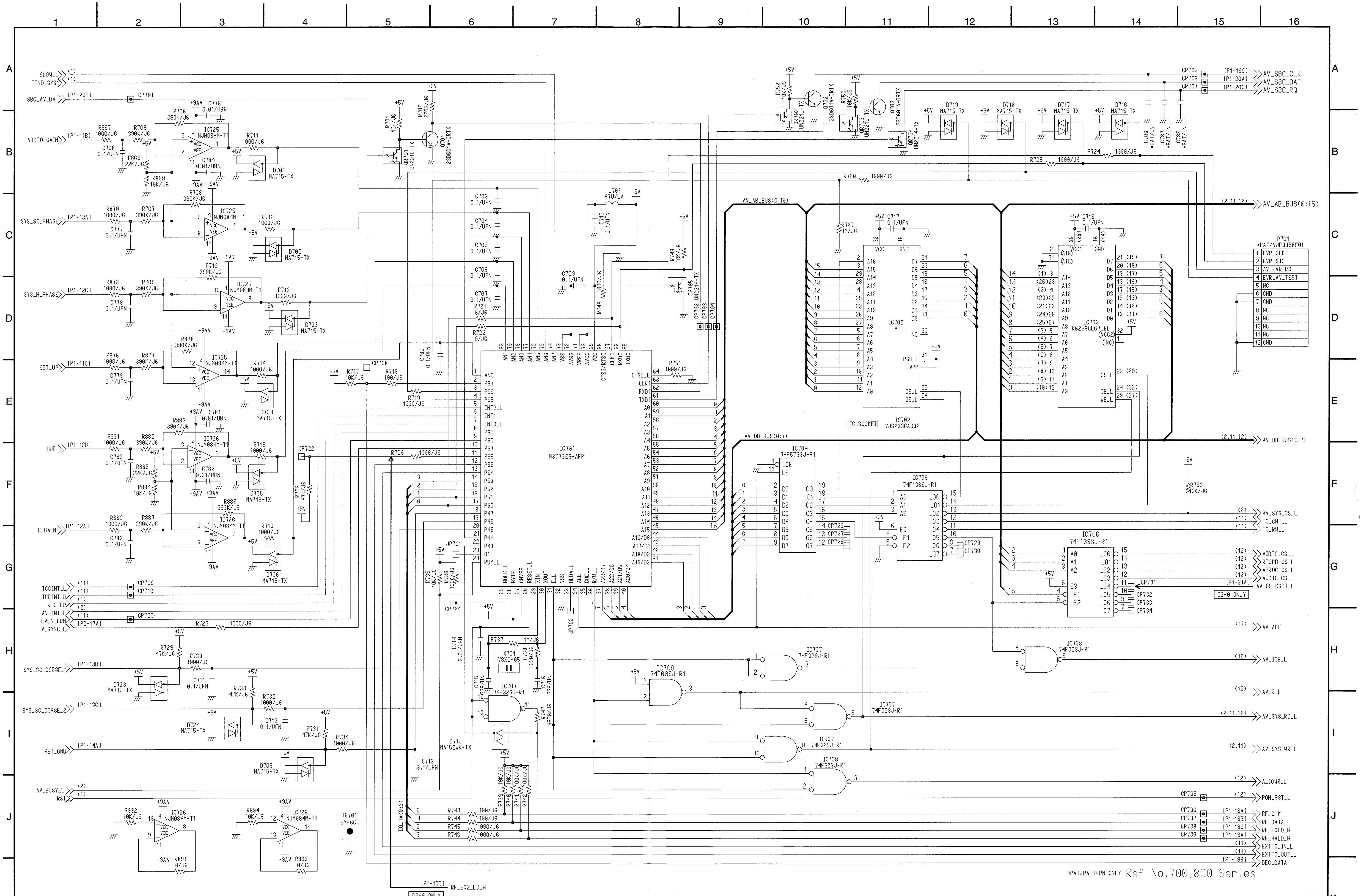
Ref No.500 Series.

COMPONENT NAME	SYSCON(I/F)	08/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(8/13)-2	SCM38	


STB16_H (8)
OUT_SCLK (8)
IF_INT_L (6)
DSR_L (7)
FEND_SYS1 (1)
V_IN_SEL_SW_L (13)
A_IN_SEL_SW_L (13)
EJECT_L (1)
SLOW_L (1)
TAPE_REV_H (1)
CTL_PLS (1)
G.144MHZ (6)
A0 (6)
A1 (6)
IORD_L (6)
IOWR_L (6)
PORTB_CS1_L (6)
PORTB_CS2_L (6)
RST_L (1)
DATA_BUS(0:7) (6)
EJECT_LED_H (1)
AUTO_OFF_LED_H (1)
IF_DIPSW(0:7) (8)
PB0(0:7)
PB1(0:7)
PB2(0:7)
PB3(0:7)
PB4(0:6)
R548 47K/J6
R549 47K/J6
R550 10K/J6
R551 10K/J6
R554 10K/J6
D504 MA715-TX
D505 MA715-TX
C537 0.1/UFN
C538 0.1/UFN
IC13 MC74HC74AF-R
IC530 T74HC191AFT1
IC531 T74HC191AFT1
IC532 MC74HC574AFR
IC523 MC74HC04AF-R
R608 2200/J6
C548 0.1/UFN
C547 0.01/UBN
IC527 MB89363BPF
IC528 MC14021BF-R
IC529 MC14021BF-R
C549 0.01/UBN
C550 0.01/UBN
IC524 MC14050BF-R
R598 100/J6
D507 MA715-TX
D506 MA152WK-TX
R599 10K/J6
U_FRONT_DATA (13)
R633 *PAT/J6
R634 *(0/J6)
DTR_L (7)
LOCAL1_H (7)
9P_REM_H (7)
9P_REM1_H (7)
9P_REM2_H (7)
LOCAL2_H (7)
9P_OUT_CON_H (7)
R590 *(47K/J6)
R591 *(47K/J6)
R592 *(47K/J6)
R593 *(47K/J6)
R594 *(47K/J6)
R609 *(47K/J6)
R631 *PAT/J6
R632 *PAT/J6
R580 47K/J6
IC508 MC74HC00AF-R
INT_REF_L (1)
INT_REF_PULSE (1)
R621–R628 *PAT/J6
C543 0.01/UBN
C544 0.01/UBN
C545 0.01/UBN
CMPNT_LED
CMPSIT_LED
SER_CMPNT_LED
ANALOG_LED
AES_EBU_LED
USER_SET_LED
SERIAL_LED
YC_LED
CH_COND1_LED
CH_COND2_LED
CH_COND3_LED
FRONT_SPARE1
FRONT_SPARE2
FRONT_SPARE3
EJECT_LED
AUTO_OFF_LED
AUTO_OFF
+5V

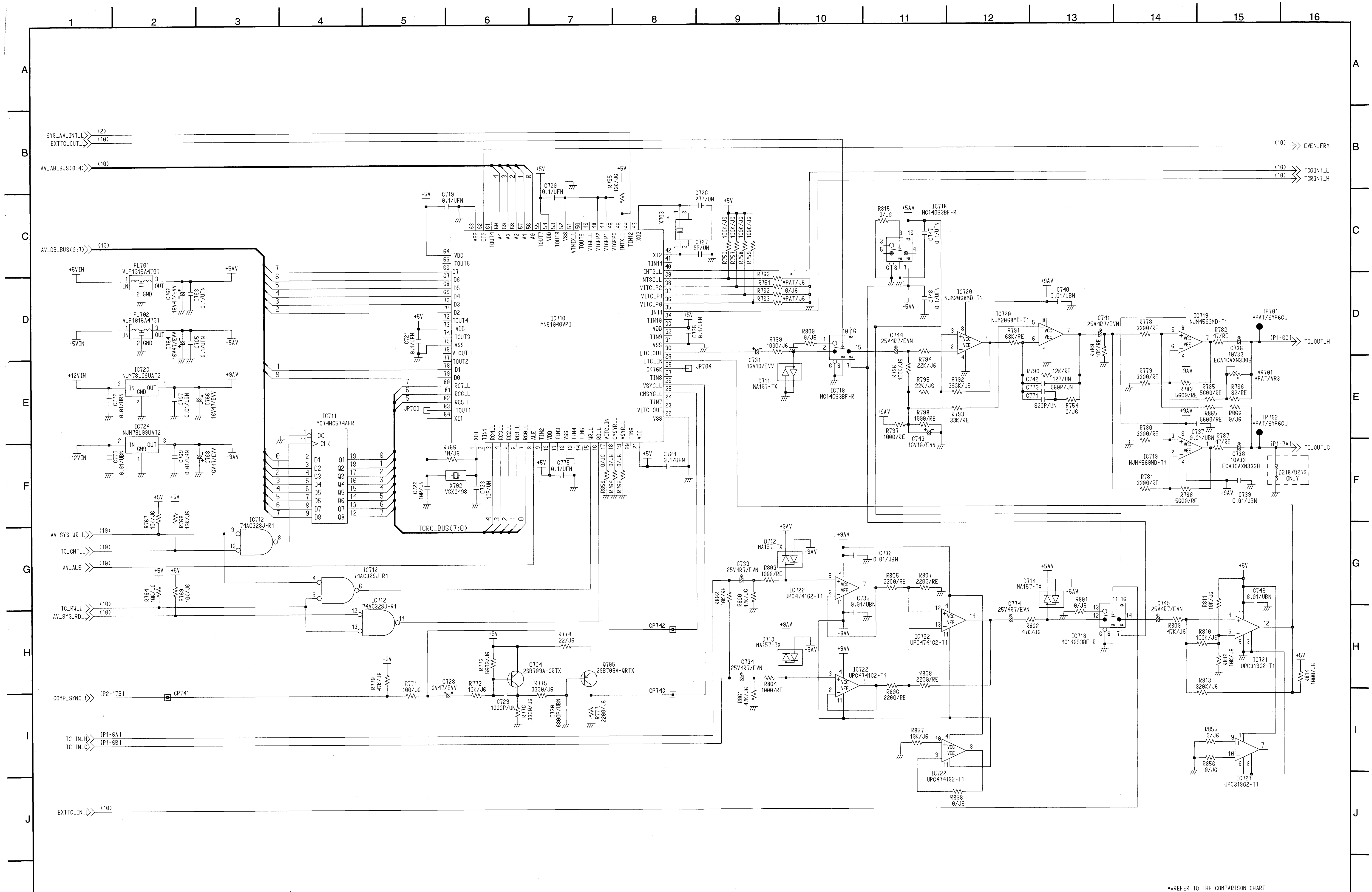
Ref No.500 Series.

COMPONENT NAME	SYSCON(I/F)	09/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(9/13)-2		SCM39


SLOW_L
FEND_SYS
SBC_AV_DAT
VIDEO_GAIN
SYS_SC_PHASE
SYS_H_PHASE
SET_UP
HUE
C_GAIN
TCGINT_L
TCRINT_H
REC_FP
AV_INT_L
EVEN_FRM
V_SYNC_L
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
AV_BUSY_L
RST
IC701
M37702S4AFP
IC702
IS702
VJS2336A032
IC_SOCKET
IC703
K6256CLG7LEL
IC704
74F573SJ-R1
IC705
74F138SJ-R1
IC706
74F138SJ-R1
IC707
74F32SJ-R1
IC708
74F32SJ-R1
IC709
74F00SJ-R1
IC725
NJM084M-T1
IC726
NJM084M-T1
X701
VSX0465
L701
47U/LA
P701
*PAT/VJP3358C01
EVR_CLK
EVR_SIO
AV_EVR_RQ
EVR_AV_TEST
NC
GND
AV_AB_BUS(0:15)
AV_DB_BUS(0:7)
AV_SBC_CLK
AV_SBC_DAT
AV_SBC_RQ
AV_SYS_CS_L
TC_CNT_L
TC_RW_L
VIDEO_CS_L
RECPB_CS_L
APROC_CS_L
AUDIO_CS_L
AV_CS_CSDI_L
D240 ONLY
AV_ALE
AV_IOE_L
AV_R_L
AV_SYS_RD_L
AV_SYS_WR_L
A_IOWR_L
PON_RST_L
RF_CLK
RF_DATA
RF_EQLD_H
RF_HALD_H
EXTTC_IN_L
EXTTC_OUT_L
DEC_DATA
RF_EQ2_LD_H
TC701
EYF6CU
+5V
+9AV
-9AV

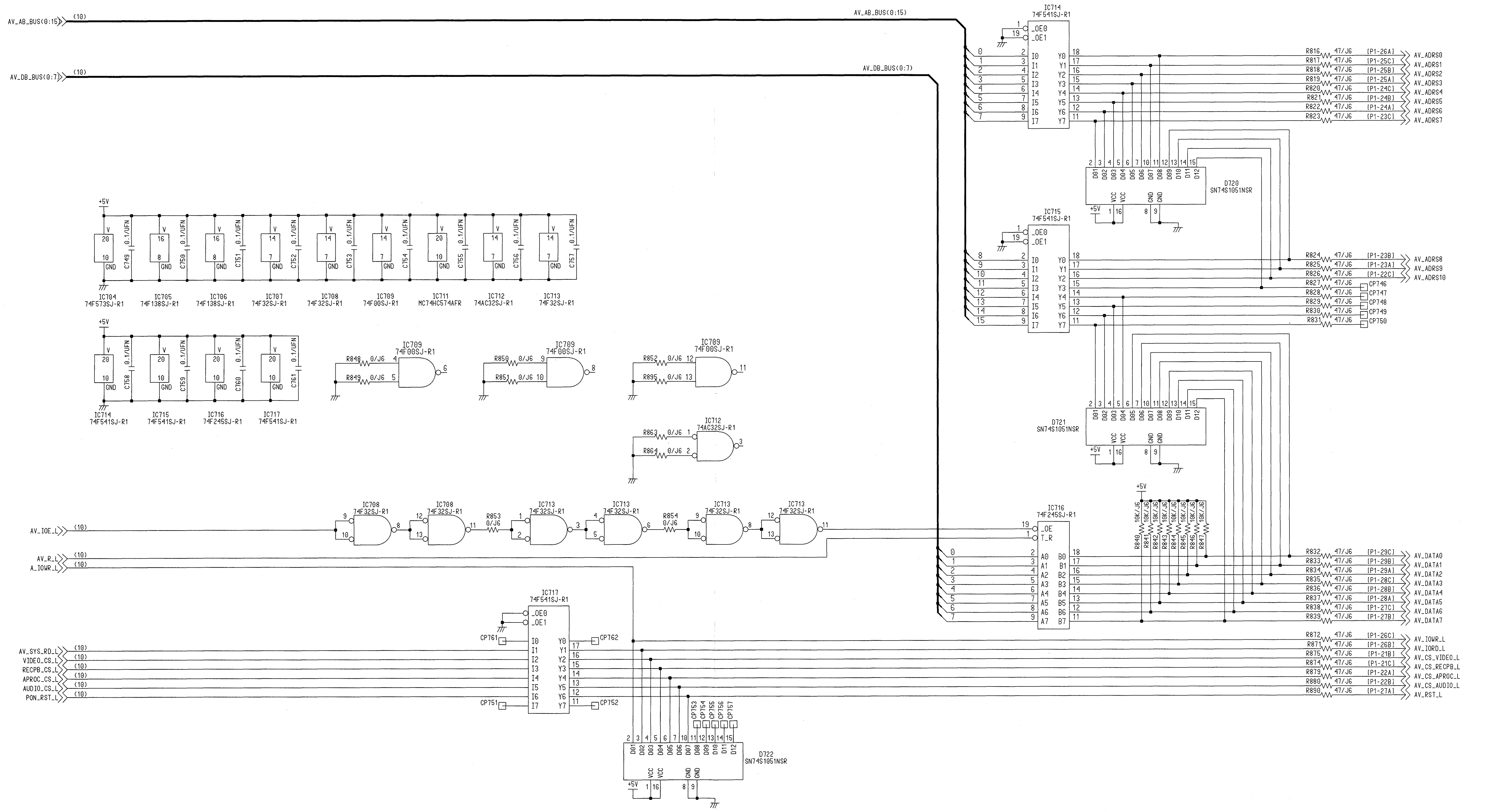
*PAT=PATTERN ONLY Ref No.700,800 Series.

COMPONENT NAME	SYSCON(AV_I/F)	10/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(10/13)-3		SCM40


SYS_AV_INT_L (2)
EXTTC_OUT_L (10)
AV_AB_BUS(0:4) (10)
AV_DB_BUS(0:7) (10)
EVEN_FRM (10)
TCGINT_L (10)
TCRINT_H (10)
FL701 VLF1016A470T
FL702 VLF1016A470T
+5VIN
+5AV
-5VIN
-5AV
+12VIN
+9AV
-12VIN
-9AV
IC723 NJM78L09UAT2
IC724 NJM79L09UAT2
C762 16V47/EVV
C763 0.1/UFN
C764 16V47/EVV
C765 0.1/UFN
C772 0.01/UBN
C767 0.01/UBN
C766 16V47/EVV
C773 0.01/UBN
C769 0.01/UBN
C768 16V47/EVV
IC710 MN51040VPI
C719 0.1/UFN
C720 0.1/UFN
R755 10K/J6
C721 0.1/UFN
X703
C726 27P/UN
C727 5P/UN
R756 R757 R758 R759 100K/J6
R760
R761 *PAT/J6
R762 0/J6
R763 *PAT/J6
C725 0.1/UFN
R799 1000/J6
R800 0/J6
C731 16V10/EVV
D711 MA157-TX
JP704
JP703
IC711 MC74HC574AFR
R766 1M/J6
X702 VSX0498
C722 10P/UN
C723 10P/UN
C775 0.1/UFN
C724 0.1/UFN
R859 R764 R765 0/J6
TCRC_BUS(7:0)
IC712 74AC32SJ-R1
R767 10K/J6
R768 10K/J6
R784 10K/J6
R769 10K/J6
AV_SYS_WR_L (10)
TC_CNT_L (10)
AV_ALE (10)
TC_RW_L (10)
AV_SYS_RD_L (10)
CP742
CP743
CP741
COMP_SYNC_L [P2-17B]
R770 47K/J6
R771 100/J6
C728 6V47/EVV
R772 10K/J6
R773 5600/J6
Q704 2SB709A-QRTX
Q705 2SB709A-QRTX
R774 22/J6
R775 3300/J6
R776 3300/J6
C729 1000P/UN
C730 6800P/UBN
R777 2200/J6
TC_IN_H [P1-6A]
TC_IN_C [P1-6B]
EXTTC_IN_L (10)
R815 0/J6
IC718 MC14053BF-R
C747 0.1/UFN
C748 0.1/UFN
C744 25V4R7/EVN
R796 100K/J6
R794 22K/J6
R795 22K/J6
R792 390K/J6
R793 33K/RE
R798 1000/RE
R797 1000/RE
C743 16V10/EVV
IC720 NJM2068MD-T1
R791 68K/RE
C740 0.01/UBN
R790 12K/RE
C742 12P/UN
C770 560P/UN
C771 820P/UN
R754 0/J6
C741 25V4R7/EVN
R789 10K/RE
R778 3300/RE
R779 3300/RE
IC719 NJM4560MD-T1
R782 47/RE
C736 10V33 ECA1CAXN330B
TP701 *PAT/EYF6CU
[P1-6C] TC_OUT_H
VR701 *PAT/VR3
R783 5600/RE
R785 5600/RE
R786 82/RE
R865 5600/RE
R866 0/J6
TP702 *PAT/EYF6CU
R780 3300/RE
C737 0.01/UBN
R787 47/RE
C738 10V33 ECA1CAXN330B
[P1-7A] TC_OUT_C
D218/D219 ONLY
R781 3300/RE
R788 5600/RE
C739 0.01/UBN
D712 MA157-TX
C733 25V4R7/EVN
R803 1000/RE
R802 10K/RE
R860 47K/J6
IC722 UPC4741G2-T1
C732 0.01/UBN
C735 0.01/UBN
R805 2200/RE
R807 2200/RE
D713 MA157-TX
C734 25V4R7/EVN
R804 1000/RE
R861 47K/J6
R806 2200/RE
R808 2200/RE
R857 10K/J6
R858 0/J6
D714 MA157-TX
C774 25V4R7/EVN
R862 47K/J6
R801 0/J6
C745 25V4R7/EVN
R809 47K/J6
R811 10K/J6
C746 0.01/UBN
R810 100K/J6
R812 10K/J6
IC721 UPC319G2-T1
R813 820K/J6
R814 1000/J6
R855 0/J6
R856 0/J6

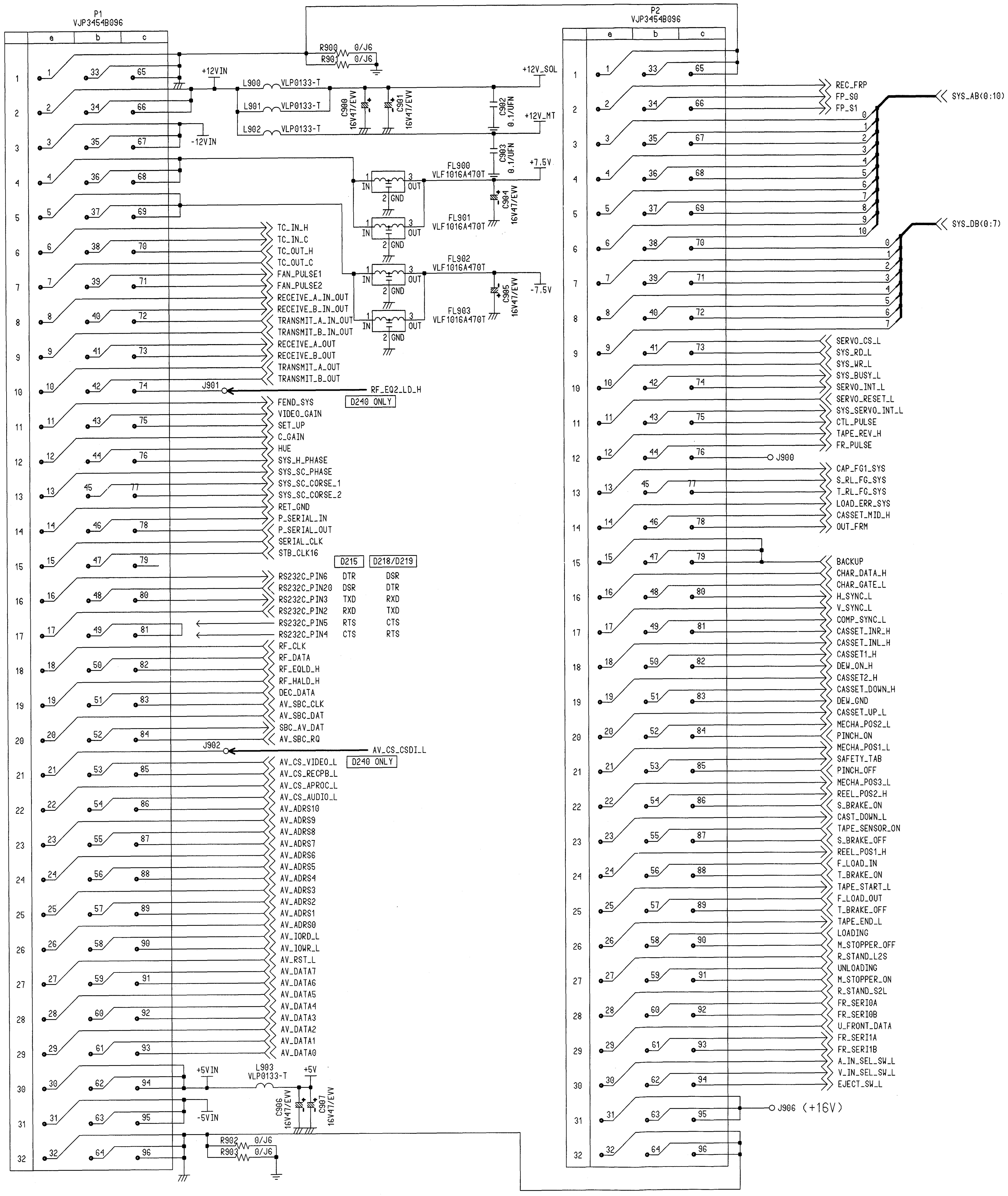
*=REFER TO THE COMPARISON CHART

COMPONENT NAME	SYSCON(AV_I/F)	11/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(11/13)-4		SCM41


AV_AB_BUS(0:15)
AV_DB_BUS(0:7)
IC714 74F541SJ-R1
IC715 74F541SJ-R1
IC716 74F245SJ-R1
IC717 74F541SJ-R1
D720 SN74S1051NSR
D721 SN74S1051NSR
D722 SN74S1051NSR
AV_ADRS0
AV_ADRS1
AV_ADRS2
AV_ADRS3
AV_ADRS4
AV_ADRS5
AV_ADRS6
AV_ADRS7
AV_ADRS8
AV_ADRS9
AV_ADRS10
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_IOWR_L
AV_IORD_L
AV_CS_VIDEO_L
AV_CS_RECPB_L
AV_CS_APROC_L
AV_CS_AUDIO_L
AV_RST_L
AV_IOE_L
AV_R_L
A_IOWR_L
AV_SYS_RD_L
VIDEO_CS_L
RECPB_CS_L
APROC_CS_L
AUDIO_CS_L
PON_RST_L
IC704 74F573SJ-R1
IC705 74F138SJ-R1
IC706 74F138SJ-R1
IC707 74F32SJ-R1
IC708 74F32SJ-R1
IC709 74F00SJ-R1
IC711 MC74HC574AFR
IC712 74AC32SJ-R1
IC713 74F32SJ-R1
+5V
0.1/UFN
CP746
CP747
CP748
CP749
CP750
CP751
CP752
CP753
CP754
CP755
CP756
CP757
CP761
CP762

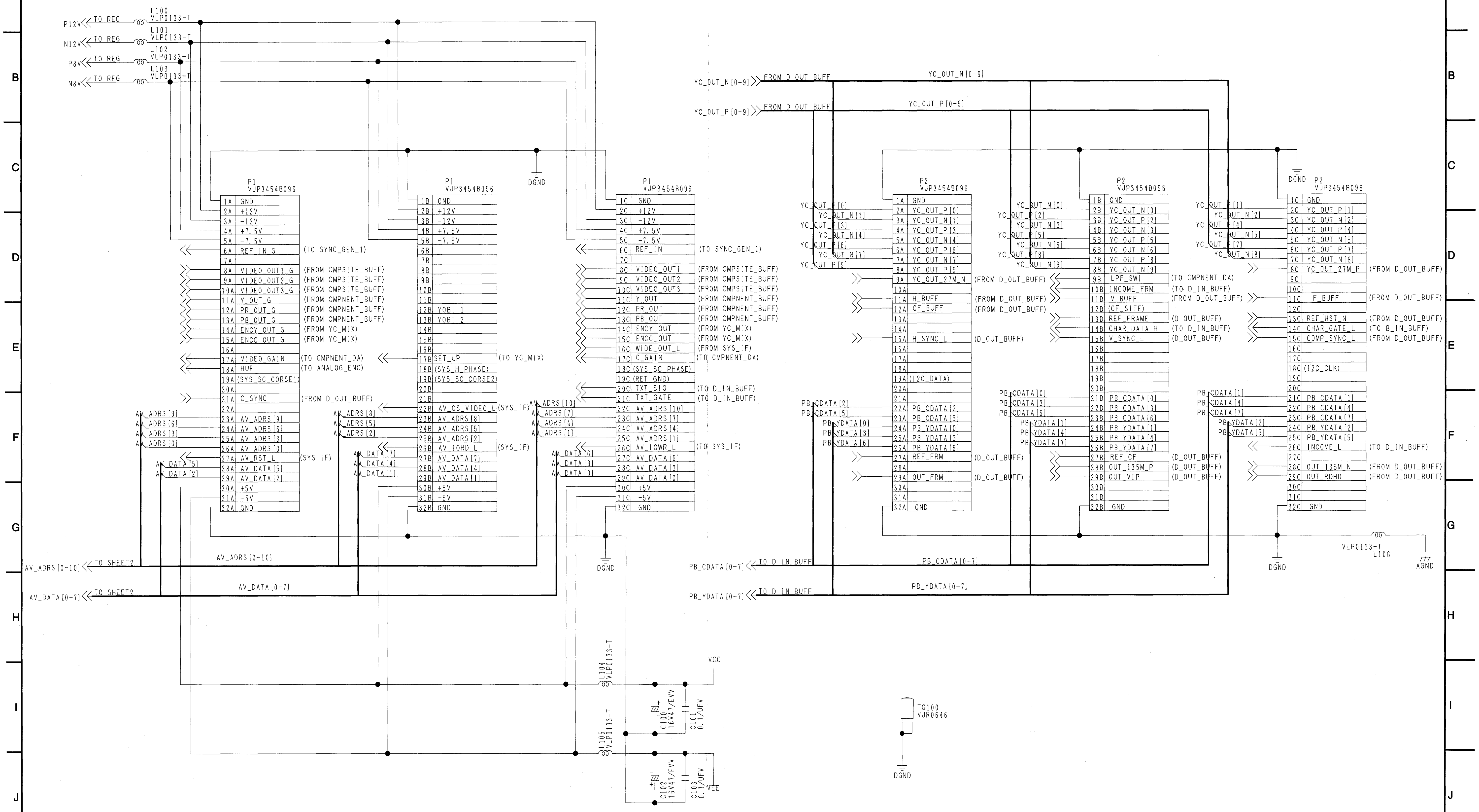
*PAT=PATTERN ONLY
*=REFER TO THE COMPARISON CHART
Ref No.700,800 Series.

COMPONENT NAME	SYSCON(AV_I/F)	12/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP86146M:450(NTSC) VEP86146P:440(NTSC) VEP86146N:450(PAL) VEP86146Q:440(PAL)		
KR6K41(12/13)-2	SCM42	

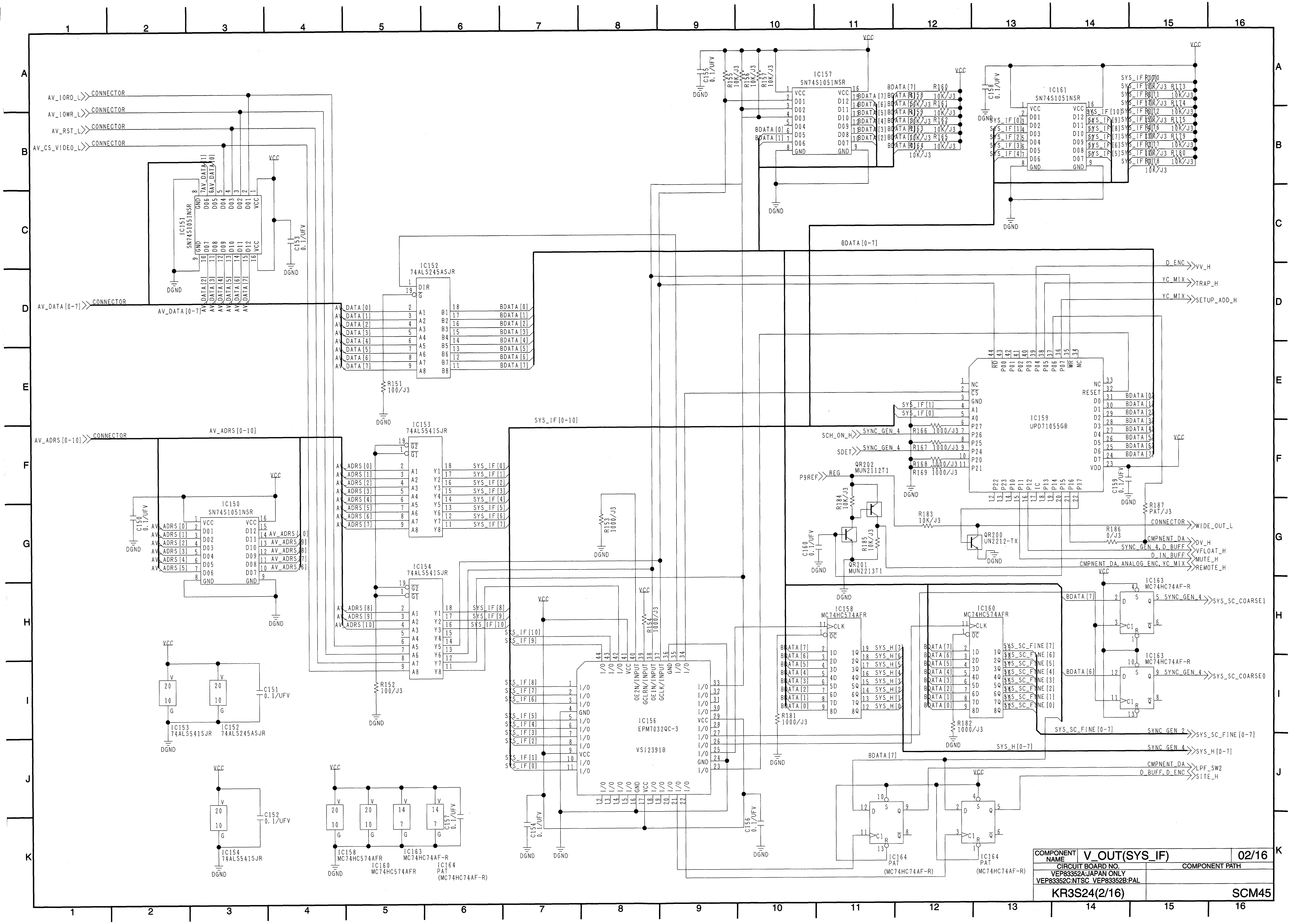

P1
VJP3454B096
P2
VJP3454B096
a
b
c
R900 0/J6
R901 0/J6
+12VIN
-12VIN
L900 VLP0133-T
L901 VLP0133-T
L902 VLP0133-T
C900 16V47/EVW
C901 16V47/EVW
C902 0.1/UFN
C903 0.1/UFN
C904 16V47/EVW
C905 16V47/EVW
+12V_SOL
+12V_MT
+7.5V
-7.5V
FL900 VLF1016A470T
FL901 VLF1016A470T
FL902 VLF1016A470T
FL903 VLF1016A470T
IN
OUT
GND
TC_IN_H
TC_IN_C
TC_OUT_H
TC_OUT_C
FAN_PULSE1
FAN_PULSE2
RECEIVE_A_IN_OUT
RECEIVE_B_IN_OUT
TRANSMIT_A_IN_OUT
TRANSMIT_B_IN_OUT
RECEIVE_A_OUT
RECEIVE_B_OUT
TRANSMIT_A_OUT
TRANSMIT_B_OUT
J901
RF_EQ2_LD_H
D240 ONLY
FEND_SYS
VIDEO_GAIN
SET_UP
C_GAIN
HUE
SYS_H_PHASE
SYS_SC_PHASE
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
P_SERIAL_IN
P_SERIAL_OUT
SERIAL_CLK
STB_CLK16
D215
D218/D219
RS232C_PIN6 DTR DSR
RS232C_PIN20 DSR DTR
RS232C_PIN3 TXD RXD
RS232C_PIN2 RXD TXD
RS232C_PIN5 RTS CTS
RS232C_PIN4 CTS RTS
RF_CLK
RF_DATA
RF_EQLD_H
RF_HALD_H
DEC_DATA
AV_SBC_CLK
AV_SBC_DAT
SBC_AV_DAT
AV_SBC_RQ
J902
AV_CS_CSDI_L
D240 ONLY
AV_CS_VIDEO_L
AV_CS_RECPB_L
AV_CS_APROC_L
AV_CS_AUDIO_L
AV_ADRS10
AV_ADRS9
AV_ADRS8
AV_ADRS7
AV_ADRS6
AV_ADRS5
AV_ADRS4
AV_ADRS3
AV_ADRS2
AV_ADRS1
AV_ADRS0
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_DATA7
AV_DATA6
AV_DATA5
AV_DATA4
AV_DATA3
AV_DATA2
AV_DATA1
AV_DATA0
+5VIN
-5VIN
L903 VLP0133-T
+5V
C906 16V47/EVW
C907 16V47/EVW
R902 0/J6
R903 0/J6
REC_FRP
FP_S0
FP_S1
SYS_AB(0:10)
SYS_DB(0:7)
SERVO_CS_L
SYS_RD_L
SYS_WR_L
SYS_BUSY_L
SERVO_INT_L
SERVO_RESET_L
SYS_SERVO_INT_L
CTL_PULSE
TAPE_REV_H
FR_PULSE
J900
CAP_FG1_SYS
S_RL_FG_SYS
T_RL_FG_SYS
LOAD_ERR_SYS
CASSET_MID_H
OUT_FRM
BACKUP
CHAR_DATA_H
CHAR_GATE_L
H_SYNC_L
V_SYNC_L
COMP_SYNC_L
CASSET_INR_H
CASSET_INL_H
CASSET1_H
DEW_ON_H
CASSET2_H
CASSET_DOWN_H
DEW_GND
CASSET_UP_L
MECHA_POS2_L
PINCH_ON
MECHA_POS1_L
SAFETY_TAB
PINCH_OFF
MECHA_POS3_L
REEL_POS2_H
S_BRAKE_ON
CAST_DOWN_L
TAPE_SENSOR_ON
S_BRAKE_OFF
REEL_POS1_H
F_LOAD_IN
T_BRAKE_ON
TAPE_START_L
F_LOAD_OUT
T_BRAKE_OFF
TAPE_END_L
LOADING
M_STOPPER_OFF
R_STAND_L2S
UNLOADING
M_STOPPER_ON
R_STAND_S2L
FR_SERI0A
FR_SERI0B
U_FRONT_DATA
FR_SERI1A
FR_SERI1B
A_IN_SEL_SW_L
V_IN_SEL_SW_L
EJECT_SW_L
J906 (+16V)

Ref No.900 Series.

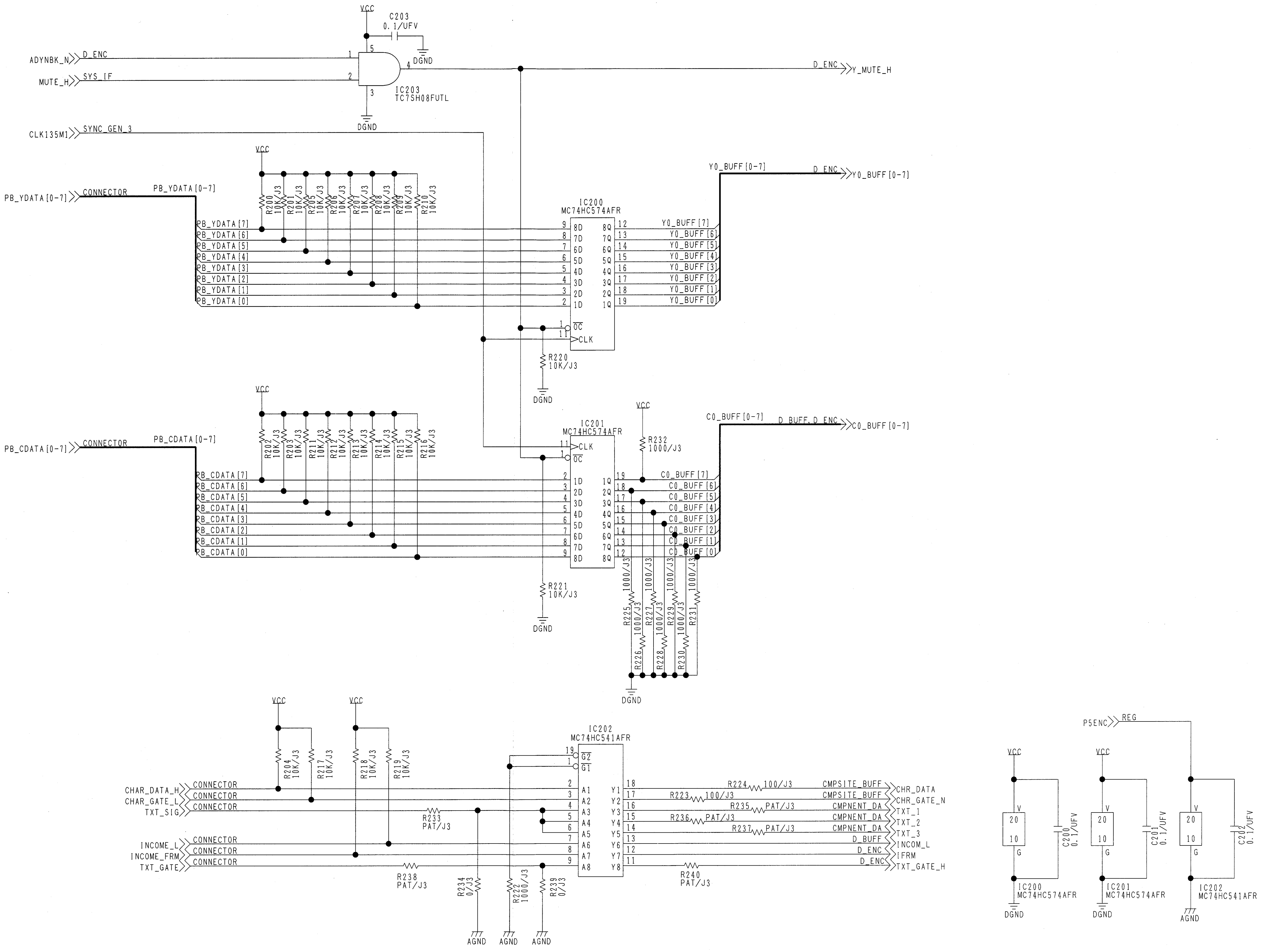
COMPONENT NAME SYSCON 13/13
CIRCUIT BOARD NO.
VEP86146M:450(NTSC) VEP86146P:440(NTSC)
VEP86146N:450(PAL) VEP86146Q:440(PAL)
COMPONENT PATH
KR6K41(13/13)-2
SCM43


P12V
TO REG
L100
VLP0133-T
N12V
TO REG
L101
VLP0133-T
P8V
TO REG
L102
VLP0133-T
N8V
TO REG
L103
VLP0133-T
DGND
P1
VJP3454B096
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A REF_IN_G (TO SYNC_GEN_1)
7A
8A VIDEO_OUT1_G (FROM CMPSITE_BUFF)
9A VIDEO_OUT2_G (FROM CMPSITE_BUFF)
10A VIDEO_OUT3_G (FROM CMPSITE_BUFF)
11A Y_OUT_G (FROM CMPNENT_BUFF)
12A PR_OUT_G (FROM CMPNENT_BUFF)
13A PB_OUT_G (FROM CMPNENT_BUFF)
14A ENCY_OUT_G (FROM YC_MIX)
15A ENCC_OUT_G (FROM YC_MIX)
16A
17A VIDEO_GAIN (TO CMPNENT_DA)
18A HUE (TO ANALOG_ENC)
19A (SYS_SC_CORSE1)
20A
21A C_SYNC (FROM D_OUT_BUFF)
22A
23A AV_ADRS[9]
24A AV_ADRS[6]
25A AV_ADRS[3]
26A AV_ADRS[0]
27A AV_RST_L (SYS_IF)
28A AV_DATA[5]
29A AV_DATA[2]
30A +5V
31A -5V
32A GND
AV_ADRS[9]
AV_ADRS[6]
AV_ADRS[3]
AV_ADRS[0]
AV_DATA[5]
AV_DATA[2]
P1
VJP3454B096
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
6B
7B
8B
9B
10B
11B
12B YOBI_1
13B YOBI_2
14B
15B
16B
17B SET_UP (TO YC_MIX)
18B (SYS_H_PHASE)
19B (SYS_SC_CORSE2)
20B
21B
22B AV_CS_VIDEO_L (SYS_IF)
23B AV_ADRS[8]
24B AV_ADRS[5]
25B AV_ADRS[2]
26B AV_IORD_L (SYS_IF)
27B AV_DATA[7]
28B AV_DATA[4]
29B AV_DATA[1]
30B +5V
31B -5V
32B GND
AV_ADRS[8]
AV_ADRS[5]
AV_ADRS[2]
AV_DATA[7]
AV_DATA[4]
AV_DATA[1]
P1
VJP3454B096
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C REF_IN (TO SYNC_GEN_1)
7C
8C VIDEO_OUT1 (FROM CMPSITE_BUFF)
9C VIDEO_OUT2 (FROM CMPSITE_BUFF)
10C VIDEO_OUT3 (FROM CMPSITE_BUFF)
11C Y_OUT (FROM CMPNENT_BUFF)
12C PR_OUT (FROM CMPNENT_BUFF)
13C PB_OUT (FROM CMPNENT_BUFF)
14C ENCY_OUT (FROM YC_MIX)
15C ENCC_OUT (FROM YC_MIX)
16C WIDE_OUT_L (FROM SYS_IF)
17C C_GAIN (TO CMPNENT_DA)
18C (SYS_SC_PHASE)
19C (RET_GND)
20C TXT_SIG (TO D_IN_BUFF)
21C TXT_GATE (TO D_IN_BUFF)
22C AV_ADRS[10]
23C AV_ADRS[7]
24C AV_ADRS[4]
25C AV_ADRS[1]
26C AV_IOWR_L (TO SYS_IF)
27C AV_DATA[6]
28C AV_DATA[3]
29C AV_DATA[0]
30C +5V
31C -5V
32C GND
AV_ADRS[10]
AV_ADRS[7]
AV_ADRS[4]
AV_ADRS[1]
AV_DATA[6]
AV_DATA[3]
AV_DATA[0]
AV_ADRS[0-10]
TO SHEET2
AV_ADRS[0-10]
AV_DATA[0-7]
TO SHEET2
AV_DATA[0-7]
DGND
L104
VLP0133-T
VCC
C100
16V47/EVV
C101
0.1/UFV
L105
VLP0133-T
C102
16V47/EVV
C103
0.1/UFV
VEE
YC_OUT_N[0-9]
FROM D_OUT_BUFF
YC_OUT_N[0-9]
YC_OUT_P[0-9]
FROM D_OUT_BUFF
YC_OUT_P[0-9]
DGND
P2
VJP3454B096
YC_OUT_P[0]
YC_OUT_N[1]
YC_OUT_P[3]
YC_OUT_N[4]
YC_OUT_P[6]
YC_OUT_N[7]
YC_OUT_P[9]
1A GND
2A YC_OUT_P[0]
3A YC_OUT_N[1]
4A YC_OUT_P[3]
5A YC_OUT_N[4]
6A YC_OUT_P[6]
7A YC_OUT_N[7]
8A YC_OUT_P[9]
9A YC_OUT_27M_N (FROM D_OUT_BUFF)
10A
11A H_BUFF (FROM D_OUT_BUFF)
12A CF_BUFF (FROM D_OUT_BUFF)
13A
14A
15A H_SYNC_L (D_OUT_BUFF)
16A
17A
18A
19A (I2C_DATA)
20A
21A
22A PB_CDATA[2]
23A PB_CDATA[5]
24A PB_YDATA[0]
25A PB_YDATA[3]
26A PB_YDATA[6]
27A REF_FRM (D_OUT_BUFF)
28A
29A OUT_FRM (D_OUT_BUFF)
30A
31A
32A GND
PB_CDATA[2]
PB_CDATA[5]
PB_YDATA[0]
PB_YDATA[3]
PB_YDATA[6]
P2
VJP3454B096
YC_OUT_N[0]
YC_OUT_P[2]
YC_OUT_N[3]
YC_OUT_P[5]
YC_OUT_N[6]
YC_OUT_P[8]
YC_OUT_N[9]
1B GND
2B YC_OUT_N[0]
3B YC_OUT_P[2]
4B YC_OUT_N[3]
5B YC_OUT_P[5]
6B YC_OUT_N[6]
7B YC_OUT_P[8]
8B YC_OUT_N[9]
9B LPF_SW1 (TO CMPNENT_DA)
10B INCOME_FRM (TO D_IN_BUFF)
11B V_BUFF (FROM D_OUT_BUFF)
12B (CF_SITE)
13B REF_FRAME (D_OUT_BUFF)
14B CHAR_DATA_H (TO D_IN_BUFF)
15B V_SYNC_L (D_OUT_BUFF)
16B
17B
18B
19B
20B
21B PB_CDATA[0]
22B PB_CDATA[3]
23B PB_CDATA[6]
24B PB_YDATA[1]
25B PB_YDATA[4]
26B PB_YDATA[7]
27B REF_CF (D_OUT_BUFF)
28B OUT_135M_P (D_OUT_BUFF)
29B OUT_VIP (D_OUT_BUFF)
30B
31B
32B GND
PB_CDATA[0]
PB_CDATA[3]
PB_CDATA[6]
PB_YDATA[1]
PB_YDATA[4]
PB_YDATA[7]
DGND
P2
VJP3454B096
YC_OUT_P[1]
YC_OUT_N[2]
YC_OUT_P[4]
YC_OUT_N[5]
YC_OUT_P[7]
YC_OUT_N[8]
1C GND
2C YC_OUT_P[1]
3C YC_OUT_N[2]
4C YC_OUT_P[4]
5C YC_OUT_N[5]
6C YC_OUT_P[7]
7C YC_OUT_N[8]
8C YC_OUT_27M_P (FROM D_OUT_BUFF)
9C
10C
11C F_BUFF (FROM D_OUT_BUFF)
12C
13C REF_HST_N (FROM D_OUT_BUFF)
14C CHAR_GATE_L (TO B_IN_BUFF)
15C COMP_SYNC_L (FROM D_OUT_BUFF)
16C
17C
18C (I2C_CLK)
19C
20C
21C PB_CDATA[1]
22C PB_CDATA[4]
23C PB_CDATA[7]
24C PB_YDATA[2]
25C PB_YDATA[5]
26C INCOME_L (TO D_IN_BUFF)
27C
28C OUT_135M_N (FROM D_OUT_BUFF)
29C OUT_RDHD (FROM D_OUT_BUFF)
30C
31C
32C GND
PB_CDATA[1]
PB_CDATA[4]
PB_CDATA[7]
PB_YDATA[2]
PB_YDATA[5]
PB_CDATA[0-7]
TO D_IN_BUFF
PB_CDATA[0-7]
PB_YDATA[0-7]
TO D_IN_BUFF
PB_YDATA[0-7]
DGND
VLP0133-T
L106
AGND
TG100
VJR0646
DGND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

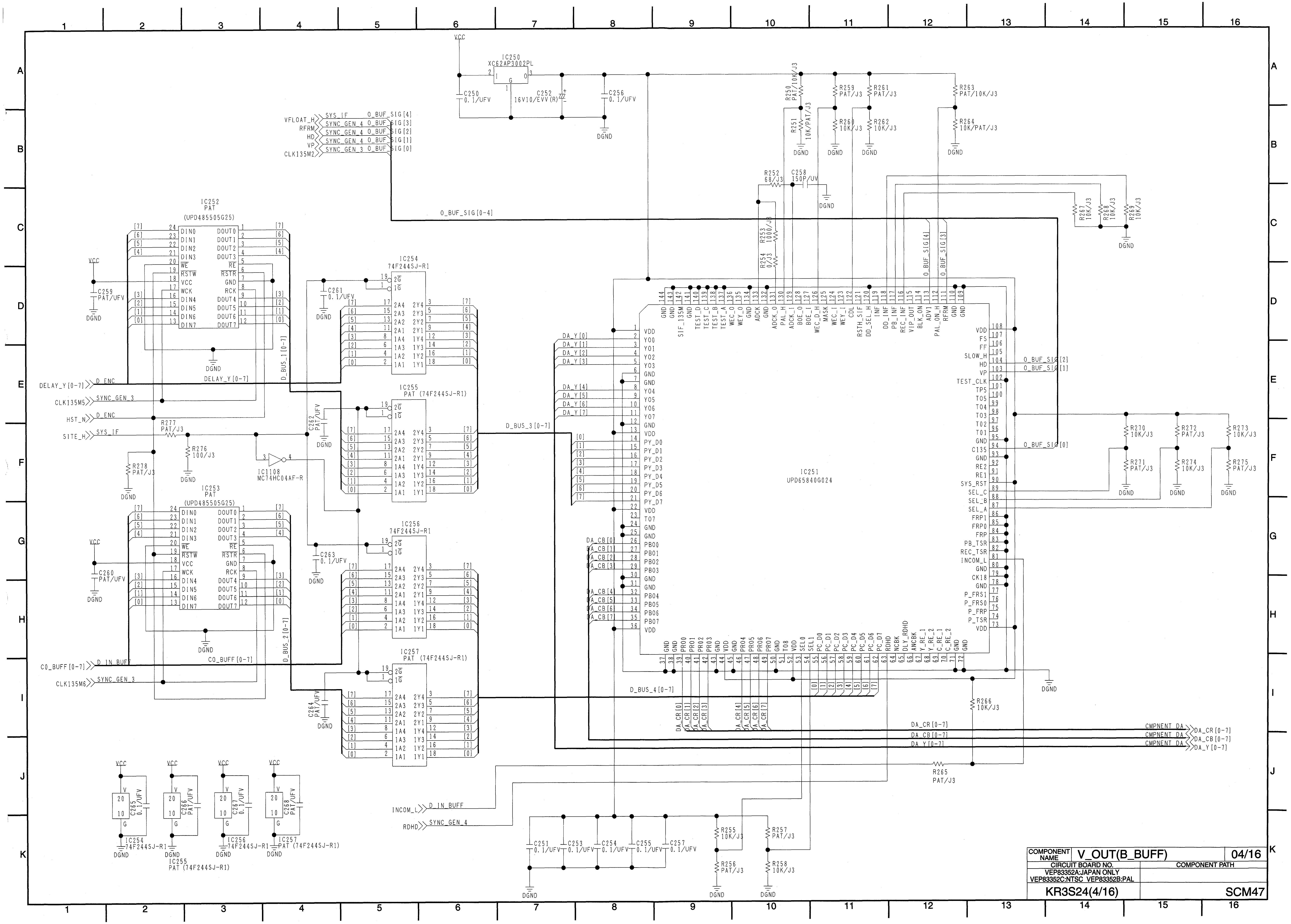
COMPONENT NAME	V_OUT(CONNECTOR)	01/16
CIRCUIT BOARD NO. VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	COMPONENT PATH	
KR3S24(1/16)	SCM44	


AV_IORD_L CONNECTOR
AV_IOWR_L CONNECTOR
AV_RST_L CONNECTOR
AV_CS_VIDEO_L CONNECTOR
AV_DATA[0-7] CONNECTOR
AV_ADRS[0-10] CONNECTOR
IC151 SN74S1051NSR
IC152 74ALS245ASJR
IC153 74ALS541SJR
IC154 74ALS541SJR
IC150 SN74S1051NSR
IC156 EPM7032QC-3 VS12391B
IC157 SN74S1051NSR
IC161 SN74S1051NSR
IC159 UPD71055GB
IC158 MC74HC574AFR
IC160 MC74HC574AFR
IC163 MC74HC74AF-R
IC164 PAT (MC74HC74AF-R)
QR202 MUN2112T1
QR201 MUN2213T1
QR200 UN2212-TX
BDATA[0-7]
SYS_IF[0-10]
SYS_H[0-7]
SYS_SC_FINE[0-7]
VV_H
TRAP_H
SETUP_ADD_H
SCH_ON_H
SDET
P9REF
WIDE_OUT_L
DV_H
VFLOAT_H
MUTE_H
REMOTE_H
SYS_SC_COARSE1
SYS_SC_COARSE0
SYS_SC_FINE(0-7)
SYS_H[0-7]
LPF_SW2
SITE_H
VCC
DGND

COMPONENT NAME	V_OUT(SYS_IF)	02/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(2/16)	SCM45	


VCC
C203
0.1/UFV
DGND
ADYNBK_N
D_ENC
MUTE_H
SYS_IF
IC203
TC7SH08FUTL
D_ENC
Y_MUTE_H
CLK135M1
SYNC_GEN_3
PB_YDATA[0-7]
CONNECTOR
PB_YDATA[0-7]
R200 10K/J3
R201 10K/J3
R205 10K/J3
R206 10K/J3
R207 10K/J3
R208 10K/J3
R209 10K/J3
R210 10K/J3
PB_YDATA[7]
PB_YDATA[6]
PB_YDATA[5]
PB_YDATA[4]
PB_YDATA[3]
PB_YDATA[2]
PB_YDATA[1]
PB_YDATA[0]
IC200
MC74HC574AFR
OC
CLK
R220
10K/J3
Y0_BUFF[0-7]
D_ENC
Y0_BUFF[0-7]
Y0_BUFF[7]
Y0_BUFF[6]
Y0_BUFF[5]
Y0_BUFF[4]
Y0_BUFF[3]
Y0_BUFF[2]
Y0_BUFF[1]
Y0_BUFF[0]
PB_CDATA[0-7]
CONNECTOR
PB_CDATA[0-7]
R202 10K/J3
R203 10K/J3
R211 10K/J3
R212 10K/J3
R213 10K/J3
R214 10K/J3
R215 10K/J3
R216 10K/J3
PB_CDATA[7]
PB_CDATA[6]
PB_CDATA[5]
PB_CDATA[4]
PB_CDATA[3]
PB_CDATA[2]
PB_CDATA[1]
PB_CDATA[0]
IC201
MC74HC574AFR
R221
10K/J3
R232
1000/J3
C0_BUFF[0-7]
D_BUFF, D_ENC
C0_BUFF[0-7]
C0_BUFF[7]
C0_BUFF[6]
C0_BUFF[5]
C0_BUFF[4]
C0_BUFF[3]
C0_BUFF[2]
C0_BUFF[1]
C0_BUFF[0]
R225 1000/J3
R226 1000/J3
R227 1000/J3
R228 1000/J3
R229 1000/J3
R230 1000/J3
R231 1000/J3
CHAR_DATA_H
CHAR_GATE_L
TXT_SIG
INCOME_L
INCOME_FRM
TXT_GATE
CONNECTOR
R204 10K/J3
R217 10K/J3
R218 10K/J3
R219 10K/J3
R233
PAT/J3
R238
PAT/J3
R234 0/J3
R222 1000/J3
R239 0/J3
AGND
IC202
MC74HC541AFR
G2
G1
R224 100/J3
R223 100/J3
R235 PAT/J3
R236 PAT/J3
R237 PAT/J3
R240
PAT/J3
CMPSITE_BUFF
CMPSITE_BUFF
CMPNENT_DA
CMPNENT_DA
CMPNENT_DA
D_BUFF
D_ENC
D_ENC
CHR_DATA
CHR_GATE_N
TXT_1
TXT_2
TXT_3
INCOM_L
IFRM
TXT_GATE_H
P5ENC
REG
C200 0.1/UFV
C201 0.1/UFV
C202 0.1/UFV
IC200
MC74HC574AFR
IC201
MC74HC574AFR
IC202
MC74HC541AFR
DGND
AGND

COMPONENT NAME	V_OUT(D_IN_BUFF)	03/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(3/16)	SCM46	


IC250 XC62AP3002PL
IC251 UPD65840G024
IC252 PAT (UPD485505G25)
IC253 PAT (UPD485505G25)
IC254 74F244SJ-R1
IC255 PAT (74F244SJ-R1)
IC256 74F244SJ-R1
IC257 PAT (74F244SJ-R1)
IC1108 MC74HC04AF-R
VFLOAT_H
RFRM
HD
VP
CLK135M2
O_BUF_SIG[0-4]
DELAY_Y[0-7]
CLK135M5
HST_N
SITE_H
CO_BUFF[0-7]
CLK135M6
D_BUS_1[0-7]
D_BUS_2[0-7]
D_BUS_3[0-7]
D_BUS_4[0-7]
INCOM_L
RDHD
DA_CR[0-7]
DA_CB[0-7]
DA_Y[0-7]
CMPNENT DA
VCC
DGND

COMPONENT NAME: V_OUT(B_BUFF)

04/16

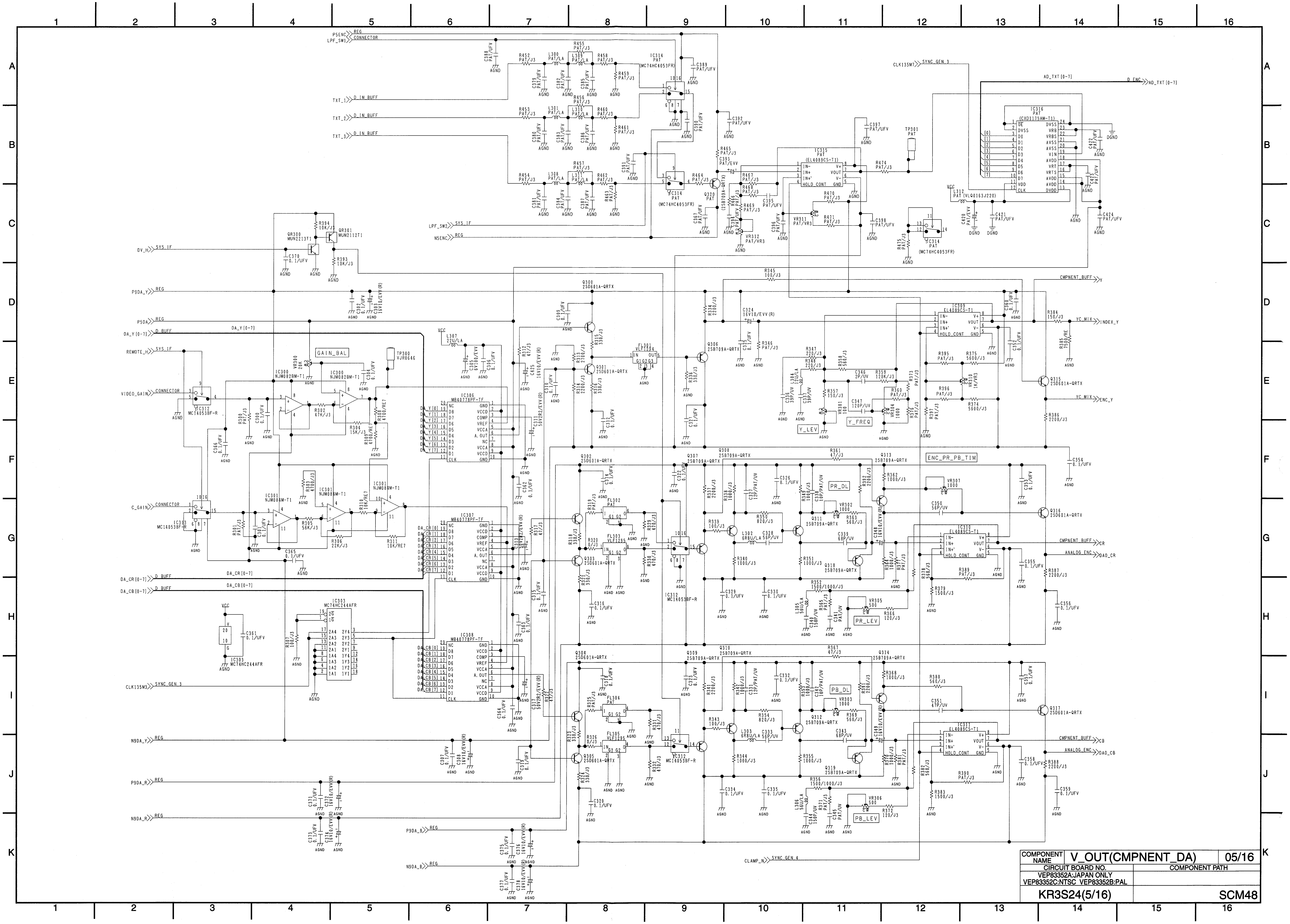
CIRCUIT BOARD NO.

COMPONENT PATH

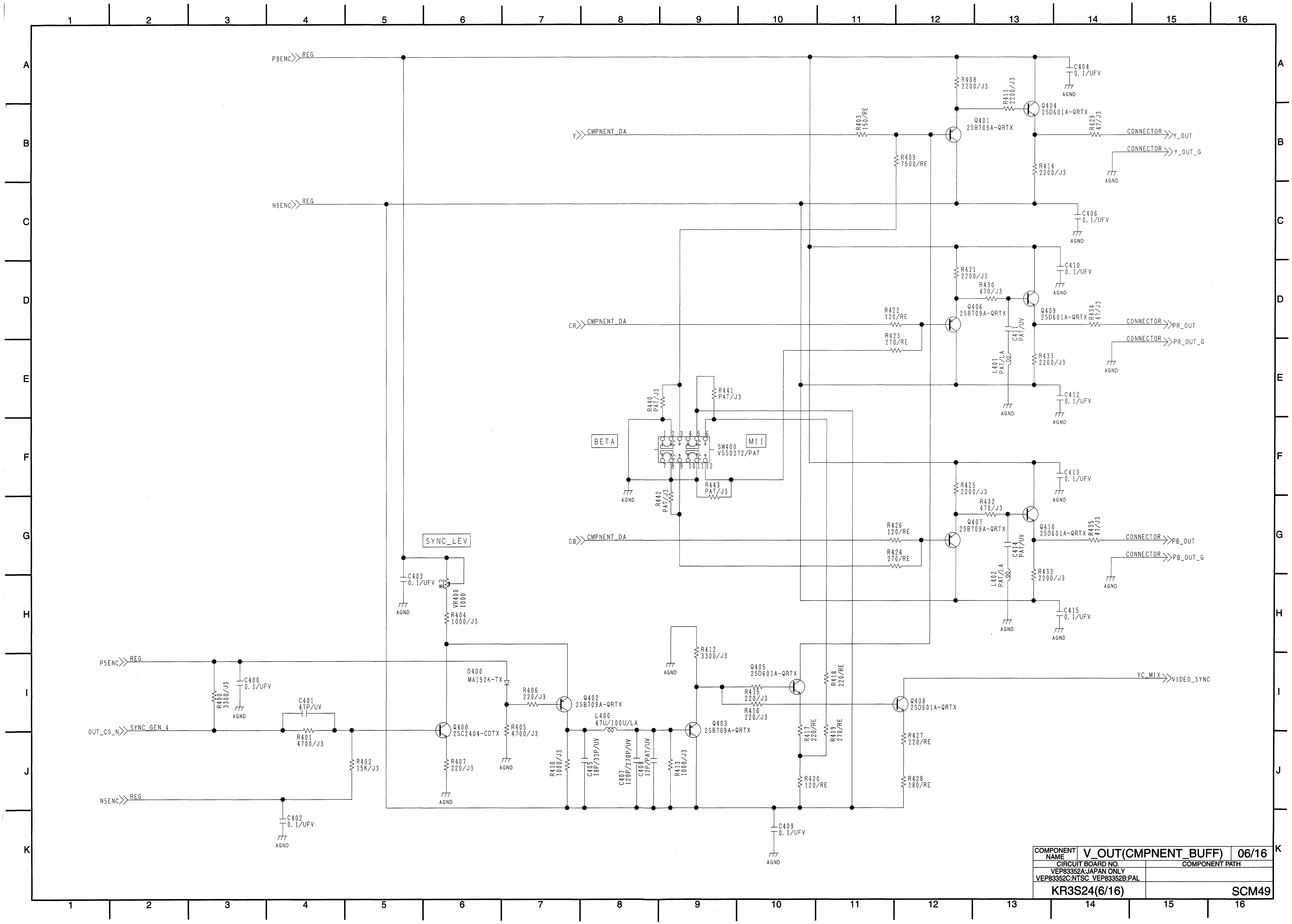
VEP83352A:JAPAN ONLY
VEP83352C:NTSC VEP83352B:PAL

KR3S24(4/16)

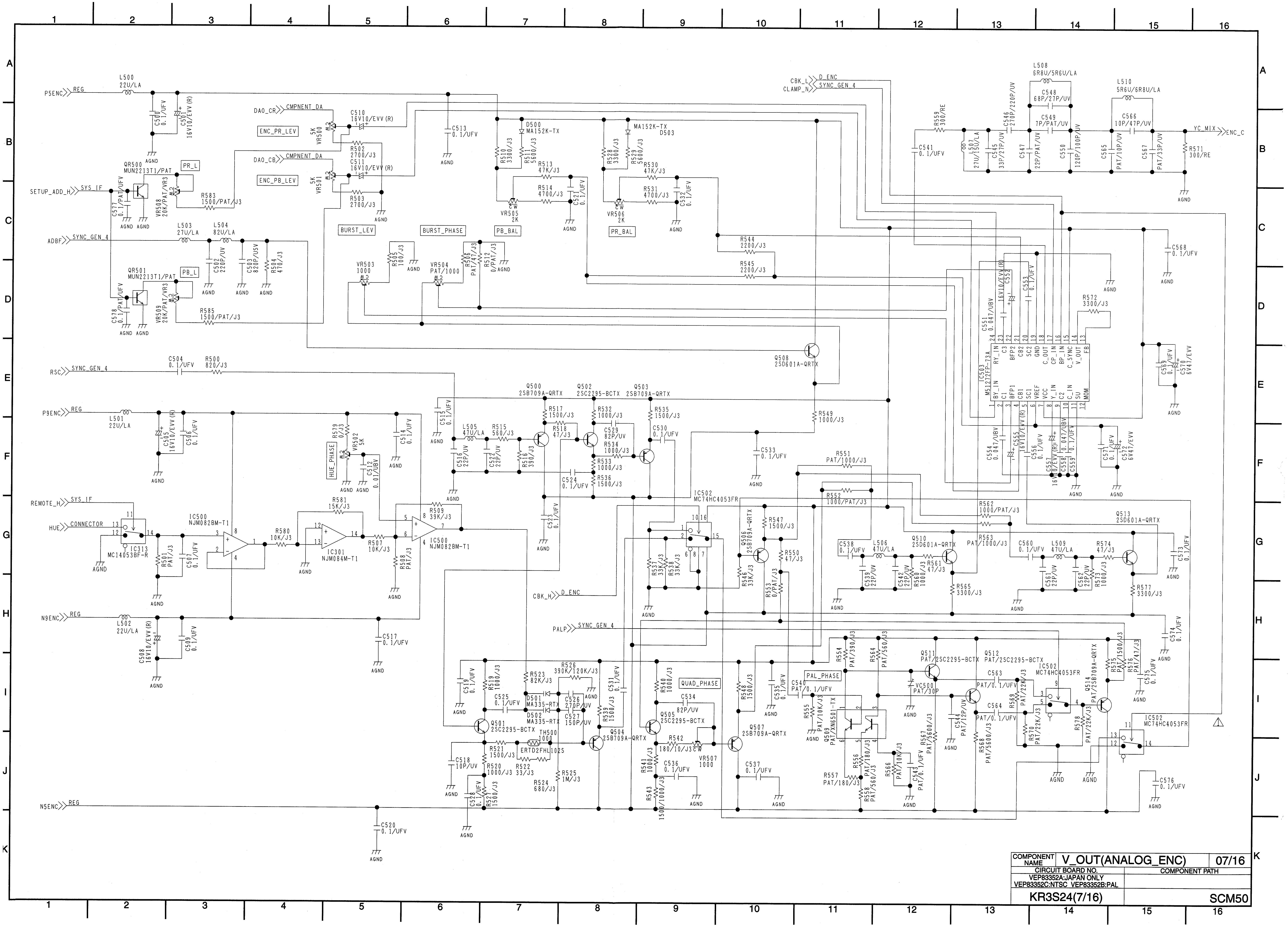
SCM47


P5ENC
LPF_SW1
REG
CONNECTOR
TXT_1
TXT_2
TXT_3
D_IN_BUFF
IC314 PAT (MC74HC4053FR)
LPF_SW2
SYS_IF
N5ENC
REG
Q320 PAT (2SB709A-QRTX)
IC315 PAT (EL4089CS-T1)
TP301 PAT
CLK135M7
SYNC_GEN_3
AD_TXT[0-7]
D_ENC
AD_TXT[0-7]
IC316 PAT (CXD1175AM-T1)
L312 PAT (VLQ0163J220)
DV_H
SYS_IF
QR300 MUN2213T1
QR301 MUN2112T1
P9DA_Y
REG
P5DA
REG
DA_Y[0-7]
D_BUFF
DA_Y[0-7]
REMOTE_H
SYS_IF
GAIN_BAL
TP300 VJR0646
VIDEO_GAIN
CONNECTOR
IC312 MC14053BF-R
IC300 NJM082BM-T1
IC306 MB40778PF-TF
Q300 2SD601A-QRTX
Q301 2SD601A-QRTX
FL301 VLF1284
Q306 2SB709A-QRTX
IC309 EL4089CS-T1
CMPNENT_BUFF
Y
YC_MIX
INDEX_Y
Q315 2SD601A-QRTX
YC_MIX
ENC_Y
Y_LEV
Y_FREQ
C_GAIN
CONNECTOR
IC313 MC14053BF
IC301 NJM084M-T1
IC307 MB40778PF-TF
Q302 2SD601A-QRTX
Q303 2SD601A-QRTX
FL302 PAT
FL303 VLF1285
Q307 2SB709A-QRTX
Q308 2SB709A-QRTX
Q311 2SB709A-QRTX
Q313 2SB709A-QRTX
Q318 2SB709A-QRTX
ENC_PR_PB_TIM
PR_DL
PR_LEV
IC312 MC14053BF-R
IC310 EL4089CS-T1
Q316 2SD601A-QRTX
CMPNENT_BUFF
CR
ANALOG_ENC
DAO_CR
DA_CR[0-7]
D_BUFF
DA_CB[0-7]
D_BUFF
IC303 MC74HC244AFR
IC308 MB40778PF-TF
CLK135M3
SYNC_GEN_3
Q304 2SD601A-QRTX
Q305 2SD601A-QRTX
FL304 PAT
FL305 VLF1285
Q309 2SB709A-QRTX
Q310 2SB709A-QRTX
Q312 2SB709A-QRTX
Q314 2SB709A-QRTX
Q319 2SB709A-QRTX
PB_DL
PB_LEV
IC311 EL4089CS-T1
Q317 2SD601A-QRTX
CMPNENT_BUFF
CB
ANALOG_ENC
DAO_CB
N9DA_Y
REG
P9DA_R
REG
N9DA_R
REG
P9DA_B
REG
N9DA_B
REG
CLAMP_N
SYNC_GEN_4
AGND
DGND
VCC

COMPONENT NAME	V_OUT(CMPNENT_DA)	05/16
CIRCUIT BOARD NO. VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	COMPONENT PATH	
KR3S24(5/16)	SCM48	


P9ENC REG
N9ENC REG
P5ENC REG
N5ENC REG
OUT_CS_N SYNC_GEN_4
Y CMPNENT_DA
CR CMPNENT_DA
CB CMPNENT_DA
CONNECTOR Y_OUT
CONNECTOR Y_OUT_G
CONNECTOR PR_OUT
CONNECTOR PR_OUT_G
CONNECTOR PB_OUT
CONNECTOR PB_OUT_G
YC_MIX VIDEO_SYNC
SYNC_LEV
BETA
MII
SW400 VSS0372/PAT
Q400 2SC2404-CDTX
Q401 2SB709A-QRTX
Q402 2SB709A-QRTX
Q403 2SB709A-QRTX
Q404 2SD601A-QRTX
Q405 2SD601A-QRTX
Q406 2SB709A-QRTX
Q407 2SB709A-QRTX
Q408 2SD601A-QRTX
Q409 2SD601A-QRTX
Q410 2SD601A-QRTX
D400 MA152K-TX
VR400 1000
L400 47U/100U/LA
L401 PAT/LA
L402 PAT/LA
C400 0.1/UFV
C401 47P/UV
C402 0.1/UFV
C403 0.1/UFV
C404 0.1/UFV
C405 18P/33P/UV
C406 0.1/UFV
C407 120P/270P/UV
C408 12P/PAT/UV
C409 0.1/UFV
C410 0.1/UFV
C411 PAT/UV
C412 0.1/UFV
C413 0.1/UFV
C414 PAT/UV
C415 0.1/UFV
R400 3300/J3
R401 4700/J3
R402 15K/J3
R403 150/RE
R404 1000/J3
R405 4700/J3
R406 220/J3
R407 220/J3
R408 2200/J3
R409 7500/RE
R410 1000/J3
R411 2200/J3
R412 3300/J3
R413 1000/J3
R414 2200/J3
R415 220/J3
R416 220/J3
R417 220/RE
R418 220/RE
R419 270/RE
R420 120/RE
R421 2200/J3
R422 120/RE
R423 270/RE
R424 270/RE
R425 2200/J3
R426 120/RE
R427 220/RE
R428 180/RE
R429 47/J3
R430 470/J3
R431 2200/J3
R432 470/J3
R433 2200/J3
R434 47/J3
R435 47/J3
R440 PAT/J3
R441 PAT/J3
R442 PAT/J3
R443 PAT/J3
AGND

COMPONENT NAME	V_OUT(CMPNENT_BUFF)	06/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(6/16)	SCM49	


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
P5ENC
REG
L500
22U/LA
C500
0.1/UFV
C501
16V10/EVV(R)
AGND
DAO_CR
CMPNENT_DA
ENC_PR_LEV
VR500
5K
C510
16V10/EVV(R)
R502
2700/J3
DAO_CB
CMPNENT_DA
ENC_PB_LEV
VR501
5K
C511
16V10/EVV(R)
R503
2700/J3
C513
0.1/UFV
D500
MA152K-TX
R510
3300/J3
R511
5600/J3
R513
47K/J3
R514
4700/J3
C521
0.1/UFV
VR505
2K
PB_BAL
MA152K-TX
D503
R528
3300/J3
R529
5600/J3
R530
47K/J3
R531
4700/J3
C532
0.1/UFV
VR506
2K
PR_BAL
CBK_L
D_ENC
CLAMP_N
SYNC_GEN_4
L508
5R8U/5R6U/LA
C548
68P/27P/UV
C549
7P/PAT/UV
C546
270P/220P/UV
L510
5R6U/5R8U/LA
C566
10P/47P/UV
YC_MIX
ENC_C
R559
300/RE
C541
0.1/UFV
L507
27U/15U/LA
C545
33P/27P/UV
C547
22P/PAT/UV
C550
120P/100P/UV
C565
PAT/10P/UV
C567
PAT/33P/UV
R571
300/RE
QR500
MUN2213T1/PAT
SETUP_ADD_H
SYS_IF
PR_L
C577
0.1/PAT/UFV
VR508
20K/PAT/VR3
R583
1500/PAT/J3
ADBF
SYNC_GEN_4
L503
27U/LA
L504
82U/LA
C502
220P/UV
C503
820P/USV
R504
470/J3
QR501
MUN2213T1/PAT
PB_L
C578
0.1/PAT/UFV
VR509
20K/PAT/VR3
R585
1500/PAT/J3
BURST_LEV
BURST_PHASE
VR503
1000
R505
100/J3
VR504
PAT/1000
R506
PAT/47/J3
R512
0/PAT/J3
R544
2200/J3
R545
2200/J3
C568
0.1/UFV
C551
0.047/UBV
C552
16V10/EVV(R)
C553
0.1/UFV
R572
3300/J3
IC503
M51272FP-13A
RY_IN
C3
BFP2
CB2
SC2
GND
C_OUT
CP_IN
BP_IN
C_SYNC
V_OUT
FB
BY_IN
C1
BFP1
CB1
SC1
VREF
VCC
Y_IN
C2
C_IN
SU
MOM
Q508
2SD601A-QRTX
C569
0.1/UFV
C570
6V47/EVV
RSC
SYNC_GEN_4
C504
0.1/UFV
R500
820/J3
Q500
2SB709A-QRTX
Q502
2SC2295-BCTX
Q503
2SB709A-QRTX
R517
1500/J3
R518
47/J3
R532
1000/J3
C529
82P/UV
R534
1000/J3
R535
1500/J3
C530
0.1/UFV
R549
1000/J3
P9ENC
REG
L501
22U/LA
C505
16V10/EVV(R)
C506
0.1/UFV
C515
0.1/UFV
L505
47U/LA
R515
560/J3
R516
390/J3
C516
22P/UV
C522
22P/UV
R579
0/J3
VR502
5K
HUE_PHASE
C512
0.01/UBV
C514
0.1/UFV
R533
1000/J3
R536
1500/J3
C524
0.1/UFV
C533
0.1/UFV
R551
PAT/1000/J3
C554
0.047/UBV
C555
16V10/EVV(R)
C556
0.1/UFV
C557
16V10/EVV(R)
C558
0.047/UBV
C559
0.1/UFV
C571
0.1/UFV
C572
6V47/EVV
IC502
MC74HC4053FR
R552
1000/PAT/J3
R562
1000/PAT/J3
Q513
2SD601A-QRTX
REMOTE_H
SYS_IF
HUE
CONNECTOR
IC313
MC14053BF-R
R501
PAT/J3
C507
0.1/UFV
IC500
NJM082BM-T1
R580
10K/J3
R581
15K/J3
IC301
NJM084M-T1
R507
10K/J3
R508
PAT/J3
R509
39K/J3
IC500
NJM082BM-T1
C523
0.1/UFV
Q506
2SB709A-QRTX
R547
1500/J3
R537
33K/J3
R538
33K/J3
R546
33K/J3
R550
47/J3
R553
0/PAT/J3
C538
0.1/UFV
L506
47U/LA
Q510
2SD601A-QRTX
R563
PAT/1000/J3
C539
22P/UV
C542
22P/UV
R560
1000/J3
R561
47/J3
R565
3300/J3
C560
0.1/UFV
L509
47U/LA
R574
47/J3
C573
0.1/UFV
C561
22P/UV
C562
22P/UV
R573
1000/J3
R577
3300/J3
CBK_H
D_ENC
N9ENC
REG
L502
22U/LA
C508
16V10/EVV(R)
C509
0.1/UFV
C517
0.1/UFV
PALP
SYNC_GEN_4
C574
0.1/UFV
R554
PAT/390/J3
R564
PAT/560/J3
Q511
PAT/2SC2295-BCTX
Q512
PAT/2SC2295-BCTX
C563
PAT/0.1/UFV
IC502
MC74HC4053FR
Q514
PAT/2SB709A-QRTX
R575
PAT/1500/J3
R576
PAT/47/J3
C575
0.1/UFV
C519
0.1/UFV
R519
1000/J3
R523
82K/J3
R526
390K/120K/J3
C531
0.1/UFV
R540
1000/J3
QUAD_PHASE
C534
82P/UV
R548
1500/J3
C535
0.1/UFV
C540
PAT/0.1/UFV
PAL_PHASE
VC500
PAT/30P
C564
PAT/0.1/UFV
R569
PAT/22K/J3
R578
PAT/22K/J3
C525
0.1/UFV
D501
MA335-RTX
D502
MA335-RTX
C526
270P/UV
C527
150P/UV
R539
1500/J3
Q505
2SC2295-BCTX
R555
PAT/10K/J3
Q509
PAT/XN6501-TX
C544
PAT/12P/UV
R567
PAT/5600/J3
R568
PAT/5600/J3
R570
PAT/22K/J3
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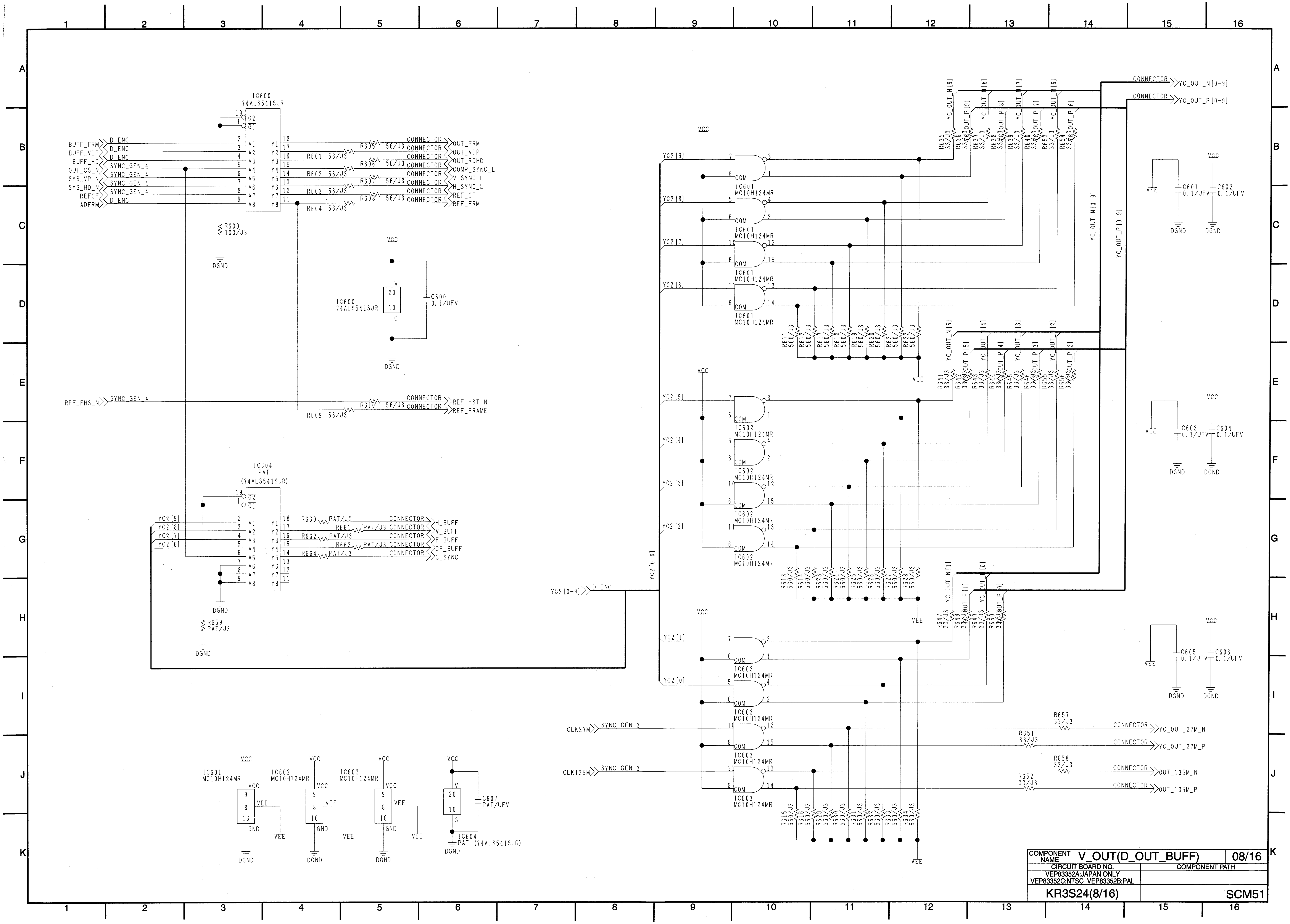
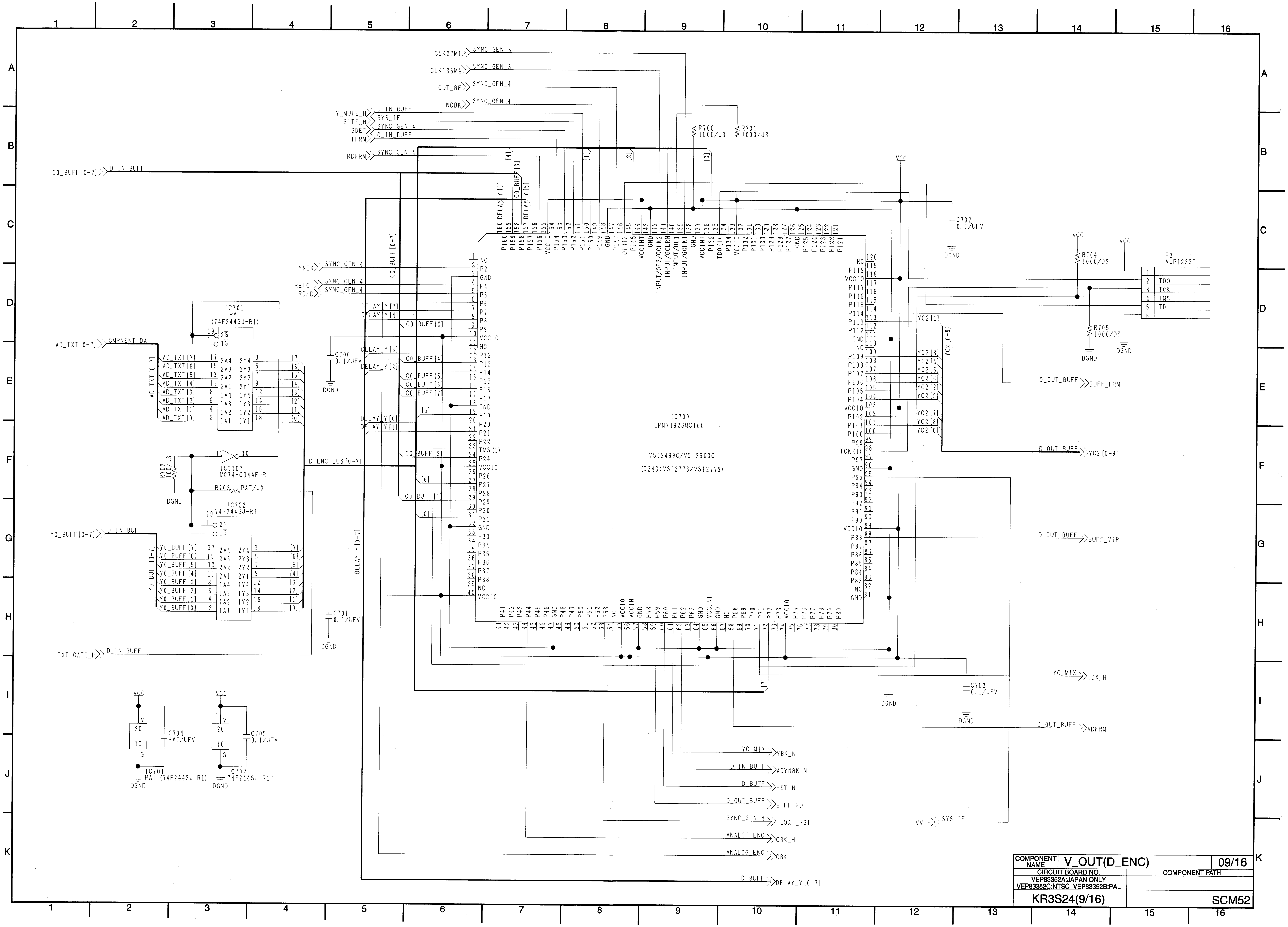
Q501
2SC2295-BCTX
TH500
1000
ERTD2FHL102S
Q504
2SB709A-QRTX
R542
180/10/J3
VR507
1000
Q507
2SB709A-QRTX
C518
10P/UV
R521
1500/J3
R520
1000/J3
R522
33/J3
R525
1M/J3
R524
680/J3
R541
1000/J3
C536
0.1/UFV
C537
0.1/UFV
R557
PAT/180/J3
R556
PAT/180/J3
R558
PAT/560/J3
R566
PAT/10K/J3
C543
PAT/0.1/UFV
C576
0.1/UFV
N5ENC
REG
C528
0.1/UFV
R527
1500/J3
R543
1500/1000/J3
C520
0.1/UFV

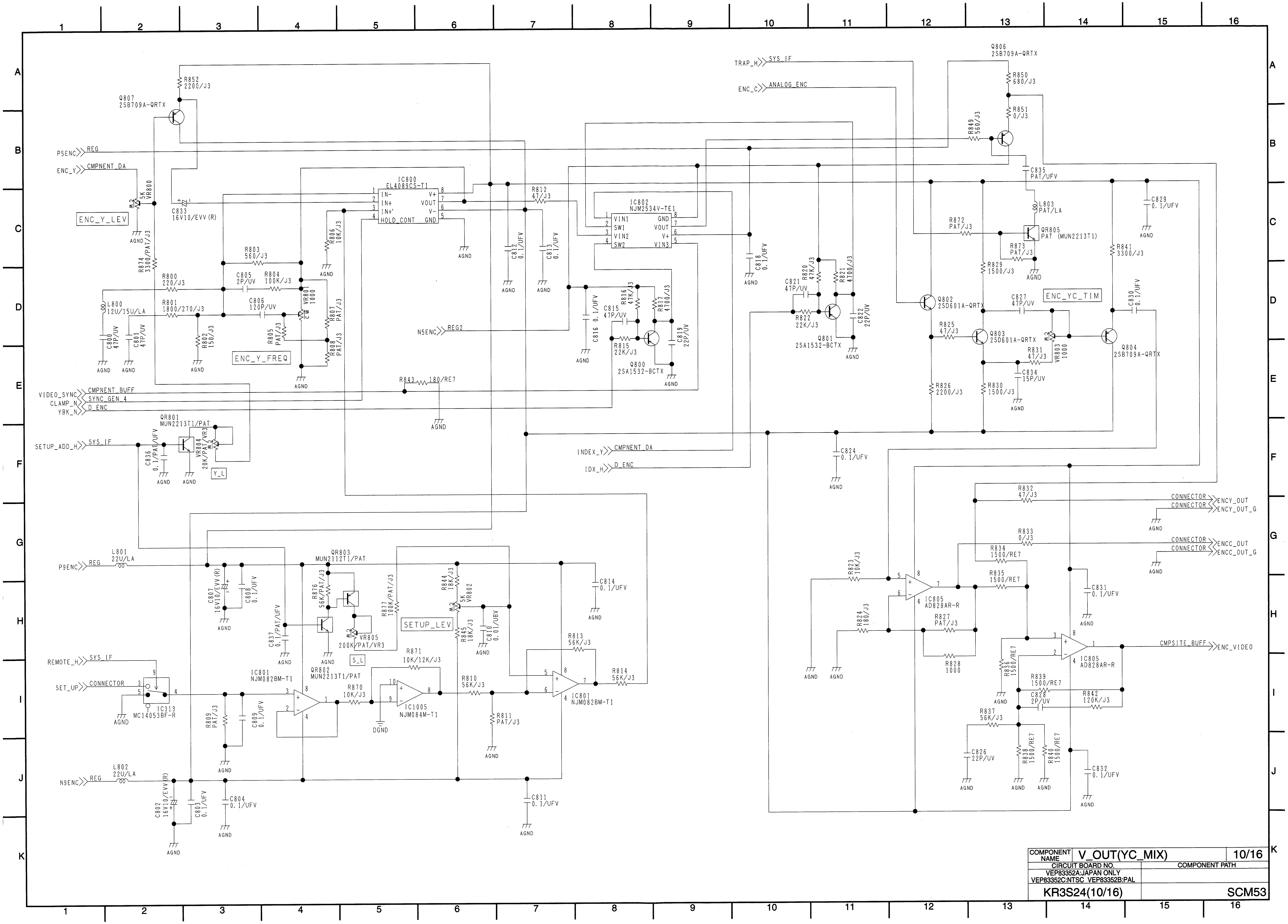
COMPONENT NAME	V_OUT(ANALOG_ENC)	07/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(7/16)		SCM50


IC600
74ALS541SJR
BUFF_FRM
BUFF_VIP
BUFF_HD
OUT_CS_N
SYS_VP_N
SYS_HD_N
REFCF
ADFRM
D_ENC
SYNC_GEN_4
R600
100/J3
DGND
R601 56/J3
R602 56/J3
R603 56/J3
R604 56/J3
R605 56/J3
R606 56/J3
R607 56/J3
R608 56/J3
CONNECTOR
OUT_FRM
OUT_VIP
OUT_RDHD
COMP_SYNC_L
V_SYNC_L
H_SYNC_L
REF_CF
REF_FRM
VCC
C600
0.1/UFV
REF_FHS_N
R609 56/J3
R610 56/J3
REF_HST_N
REF_FRAME
IC604
PAT
(74ALS541SJR)
YC2[9]
YC2[8]
YC2[7]
YC2[6]
R659
PAT/J3
R660 PAT/J3
R661 PAT/J3
R662 PAT/J3
R663 PAT/J3
R664 PAT/J3
H_BUFF
V_BUFF
F_BUFF
CF_BUFF
C_SYNC
YC2[0-9]
IC601
IC602
IC603
MC10H124MR
VEE
C607
PAT/UFV
CLK27M
CLK135M
SYNC_GEN_3
COM
YC2[5]
YC2[4]
YC2[3]
YC2[2]
YC2[1]
YC2[0]
YC_OUT_N[0-9]
YC_OUT_P[0-9]
560/J3
33/J3
R657 33/J3
R651 33/J3
R658 33/J3
R652 33/J3
YC_OUT_27M_N
YC_OUT_27M_P
OUT_135M_N
OUT_135M_P
C601 0.1/UFV
C602 0.1/UFV
C603 0.1/UFV
C604 0.1/UFV
C605 0.1/UFV
C606 0.1/UFV
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

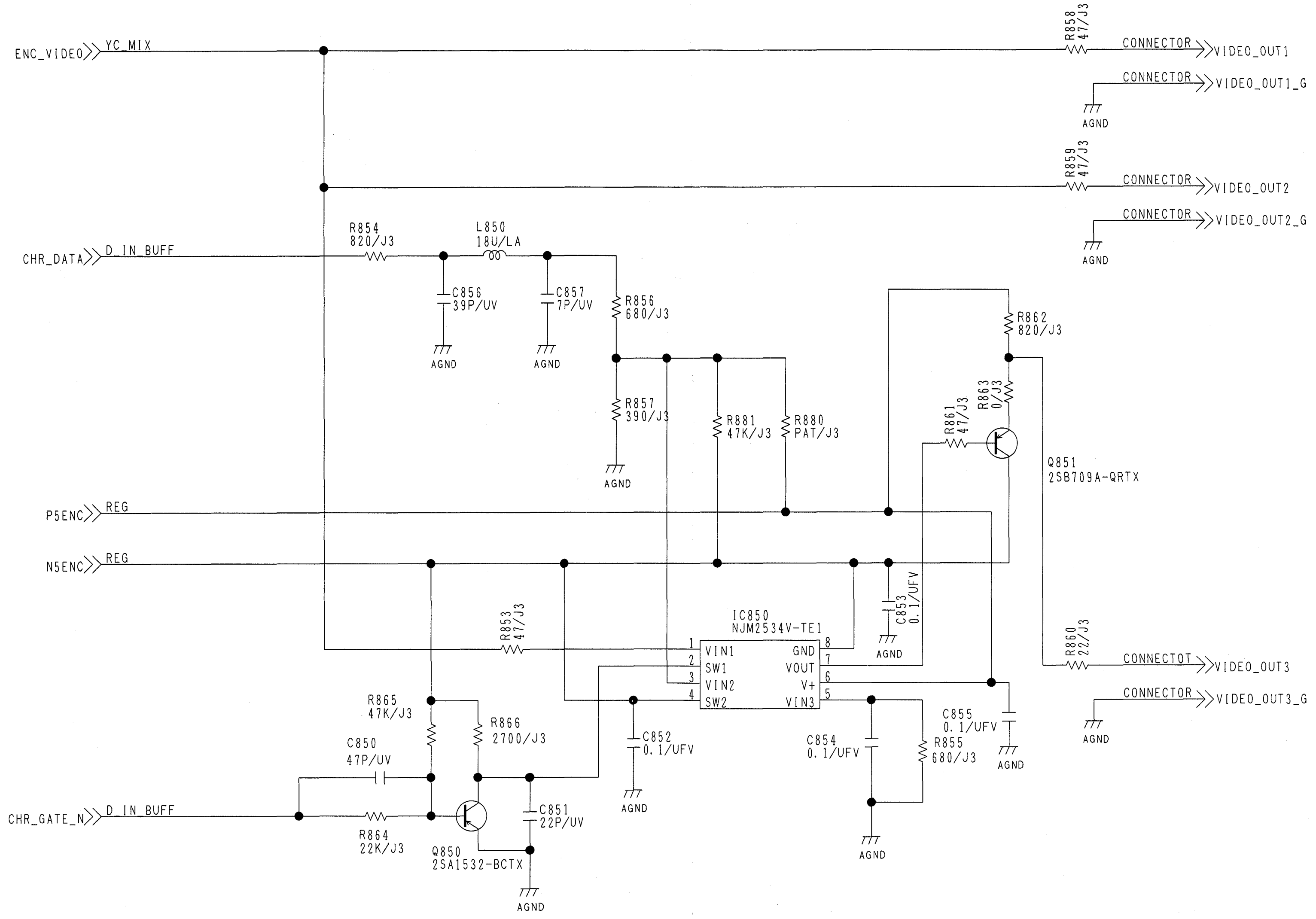
COMPONENT NAME	V_OUT(D_OUT_BUFF)	08/16
CIRCUIT BOARD NO. VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL	COMPONENT PATH	
KR3S24(8/16)	SCM51	


CLK27M1 SYNC_GEN_3
CLK135M4 SYNC_GEN_3
OUT_BF SYNC_GEN_4
NCBK SYNC_GEN_4
Y_MUTE_H D_IN_BUFF
SITE_H SYS_IF
SDET SYNC_GEN_4
IFRM D_IN_BUFF
RDFRM SYNC_GEN_4
C0_BUFF[0-7] D_IN_BUFF
R700 1000/J3
R701 1000/J3
VCC
C702 0.1/UFV
DGND
R704 1000/DS
R705 1000/DS
P3 VJP1233T
1
2 TDO
3 TCK
4 TMS
5 TDI
6
YNBK SYNC_GEN_4
REFCF SYNC_GEN_4
RDHD SYNC_GEN_4
IC701 PAT (74F244SJ-R1)
AD_TXT[0-7] CMPNENT_DA
AD_TXT[7] AD_TXT[6] AD_TXT[5] AD_TXT[4] AD_TXT[3] AD_TXT[2] AD_TXT[1] AD_TXT[0]
2A4 2A3 2A2 2A1 1A4 1A3 1A2 1A1
2Y4 2Y3 2Y2 2Y1 1Y4 1Y3 1Y2 1Y1
C700 0.1/UFV
IC1107 MC74HC04AF-R
R702 100/J3
R703 PAT/J3
IC702 74F244SJ-R1
Y0_BUFF[0-7] D_IN_BUFF
Y0_BUFF[7] Y0_BUFF[6] Y0_BUFF[5] Y0_BUFF[4] Y0_BUFF[3] Y0_BUFF[2] Y0_BUFF[1] Y0_BUFF[0]
D_ENC_BUS[0-7]
DELAY_Y[0-7]
C0_BUFF[0-7]
C701 0.1/UFV
TXT_GATE_H D_IN_BUFF
IC700
EPM7192SQC160
VSI2499C/VSI2500C
(D240:VSI2778/VSI2779)
TDI(1) TMS(1) TCK(1) TDO(1)
INPUT/OE2/GCLK2 INPUT/GCLRN INPUT/OE1 INPUT/GCLK1
VCCIO VCCINT GND NC
YC2[0-9]
D_OUT_BUFF BUFF_FRM
D_OUT_BUFF YC2[0-9]
D_OUT_BUFF BUFF_VIP
YC_MIX IDX_H
C703 0.1/UFV
D_OUT_BUFF ADFRM
YC_MIX YBK_N
D_IN_BUFF ADYNBK_N
D_BUFF HST_N
D_OUT_BUFF BUFF_HD
SYNC_GEN_4 FLOAT_RST
VV_H SYS_IF
ANALOG_ENC CBK_H
ANALOG_ENC CBK_L
D_BUFF DELAY_Y[0-7]
C704 PAT/UFV
C705 0.1/UFV
IC701 PAT (74F244SJ-R1)
IC702 74F244SJ-R1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

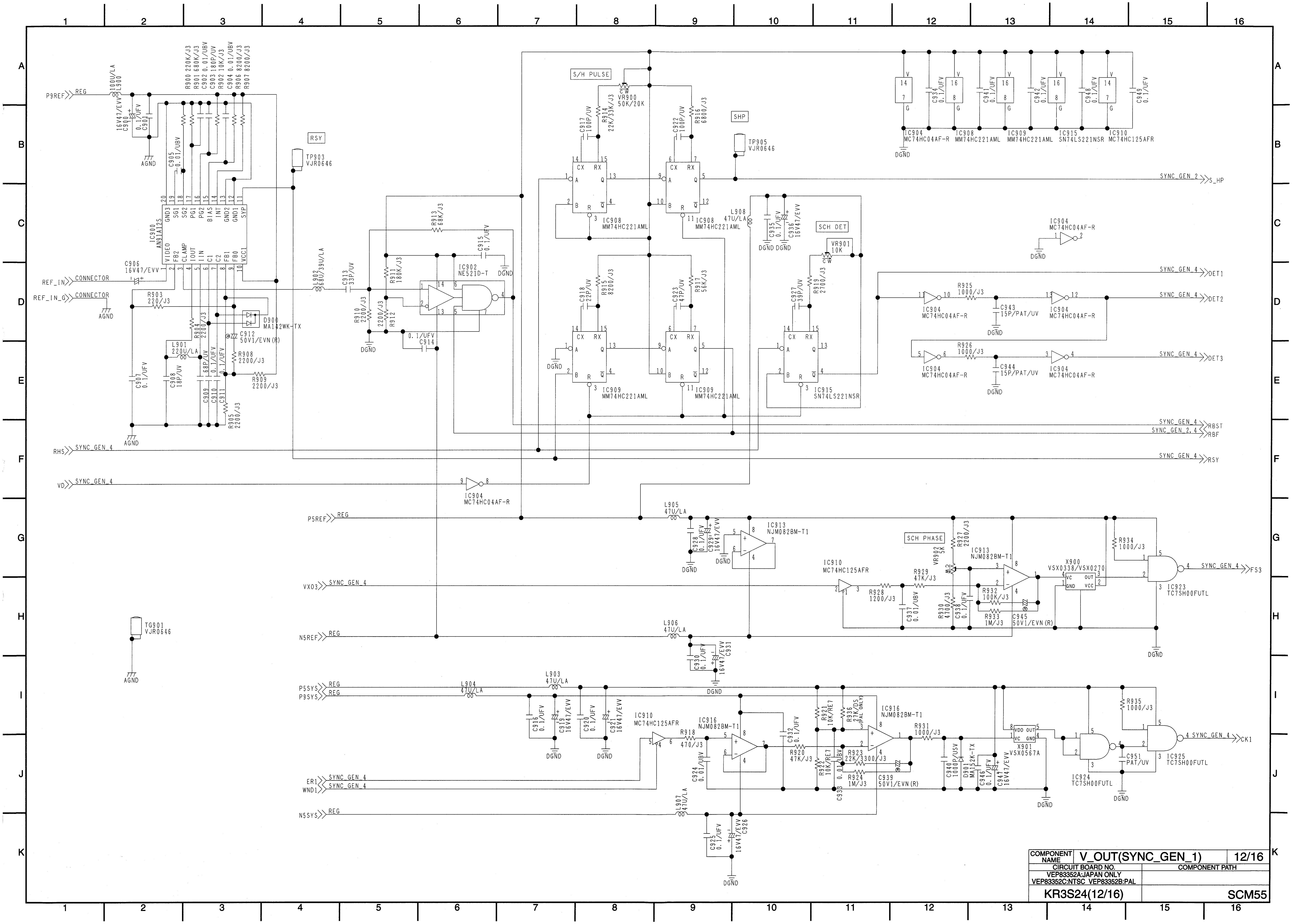
COMPONENT NAME	V_OUT(D_ENC)	09/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(9/16)		SCM52


P5ENC REG
ENC_Y CMPNENT_DA
ENC_Y_LEV
ENC_Y_FREQ
VIDEO_SYNC CMPNENT_BUFF
CLAMP_N SYNC_GEN_4
YBK_N D_ENC
SETUP_ADD_H SYS_IF
N5ENC REG2
P9ENC REG
N9ENC REG
REMOTE_H SYS_IF
SET_UP CONNECTOR
SETUP_LEV
Y_L
S_L
TRAP_H SYS_IF
ENC_C ANALOG_ENC
INDEX_Y CMPNENT_DA
IDX_H D_ENC
ENC_YC_TIM
CONNECTOR ENCY_OUT
CONNECTOR ENCY_OUT_G
CONNECTOR ENCC_OUT
CONNECTOR ENCC_OUT_G
CMPSITE_BUFF ENC_VIDEO
IC800 EL4089CS-T1
IC802 NJM2534V-TE1
IC801 NJM082BM-T1
IC1005 NJM084M-T1
IC805 AD828AR-R
IC313 MC14053BF-R
Q807 2SB709A-QRTX
Q806 2SB709A-QRTX
Q800 2SA1532-BCTX
Q801 2SA1532-BCTX
Q802 2SD601A-QRTX
Q803 2SD601A-QRTX
Q804 2SB709A-QRTX
QR801 MUN2213T1/PAT
QR802 MUN2213T1/PAT
QR803 MUN2112T1/PAT
QR805 PAT (MUN2213T1)
AGND
DGND

COMPONENT NAME V_OUT(YC_MIX) 10/16
CIRCUIT BOARD NO. COMPONENT PATH
VEP83352A:JAPAN ONLY
VEP83352C:NTSC VEP83352B:PAL
KR3S24(10/16) SCM53


ENC_VIDEO
YC_MIX
R858
47/J3
CONNECTOR
VIDEO_OUT1
CONNECTOR
VIDEO_OUT1_G
AGND
R859
47/J3
CONNECTOR
VIDEO_OUT2
CONNECTOR
VIDEO_OUT2_G
AGND
CHR_DATA
D_IN_BUFF
R854
820/J3
L850
18U/LA
C856
39P/UV
AGND
C857
7P/UV
AGND
R856
680/J3
R857
390/J3
AGND
R881
47K/J3
R880
PAT/J3
R862
820/J3
R863
0/J3
R861
47/J3
Q851
2SB709A-QRTX
P5ENC
REG
N5ENC
REG
C853
0.1/UFV
AGND
R853
47/J3
IC850
NJM2534V-TE1
1 VIN1
2 SW1
3 VIN2
4 SW2
8 GND
7 VOUT
6 V+
5 VIN3
R860
22/J3
CONNECTOT
VIDEO_OUT3
CONNECTOR
VIDEO_OUT3_G
AGND
C855
0.1/UFV
AGND
R865
47K/J3
R866
2700/J3
C850
47P/UV
C852
0.1/UFV
AGND
C854
0.1/UFV
R855
680/J3
AGND
CHR_GATE_N
D_IN_BUFF
R864
22K/J3
Q850
2SA1532-BCTX
C851
22P/UV
AGND

COMPONENT NAME V_OUT(COMPSITE_BUFF) 11/16
CIRCUIT BOARD NO.
VEP83352A:JAPAN ONLY
VEP83352C:NTSC VEP83352B:PAL
COMPONENT PATH
KR3S24(11/16)
SCM54


P9REF
REG
L900 100U/LA
C900 16V47/EVV
C901 0.1/UFV
AGND
R900 220K/J3
R901 680K/J3
C902 0.01/UBV
C903 180P/UV
R902 10K/J3
C904 0.01/UBV
R906 8200/J3
R907 8200/J3
C905 0.01/UBV
IC900 AN91A12S
GND3 SG1 SG2 PG1 PG2 BIAS INT GND2 GND1 SYP
VIDEO FB2 CLAMP IOUT I IN C1 C2 FB1 FB0 VCC1
RSY
TP903 VJR0646
REF_IN
CONNECTOR
REF_IN_G
C906 16V47/EVV
R903 220/J3
D900 MA132WK-TX
R904 2200/J3
L901 220U/LA
C912 50V1/EVN(R)
R908 2200/J3
R909 2200/J3
C907 0.1/UFV
C908 18P/UV
C909 68P/UV
C910 0.1/UFV
C911 0.1/UFV
R905 2200/J3
L902 68U/39U/LA
C913 33P/UV
R913 68K/J3
R911 180K/J3
C915 0.1/UFV
IC902 NE521D-T
R910 2200/J3
R912 2200/J3
C914 0.1/UFV
DGND
S/H PULSE
VR900 50K/20K
CW
R914 22K/33K/J3
C917 100P/UV
C922 100P/UV
R916 6800/J3
SHP
TP905 VJR0646
CX RX A B R Q
IC908 MM74HC221AML
SYNC_GEN_2
S_HP
L908 47U/LA
C935 0.1/UFV
C936 16V47/EVV
SCH DET
VR901 10K
C918 22P/UV
R915 8200/J3
C923 47P/UV
R917 56K/J3
C927 39P/UV
R919 2700/J3
IC909 MM74HC221AML
IC915 SN74LS221NSR
V 14 7 G
C934 0.1/UFV
C941 0.1/UFV
C942 0.1/UFV
C948 0.1/UFV
C949 0.1/UFV
IC904 MC74HC04AF-R
IC908 MM74HC221AML
IC909 MM74HC221AML
IC915 SN74LS221NSR
IC910 MC74HC125AFR
SYNC_GEN_4
DET1
DET2
DET3
R925 1000/J3
C943 15P/PAT/UV
R926 1000/J3
C944 15P/PAT/UV
RBST
SYNC_GEN_2,4
RBF
RHS
SYNC_GEN_4
RSY
VD
P5REF
L905 47U/LA
C928 0.1/UFV
C929 16V47/EVV
IC913 NJM082BM-T1
SCH PHASE
VR902 5K
R927 2200/J3
IC910 MC74HC125AFR
VXO3
R929 47K/J3
R928 1200/J3
C937 0.01/UBV
R930 4700/J3
C938 0.1/UFV
R932 100K/J3
R933 1M/J3
C945 50V1/EVN(R)
X900 VSX0338/VSX0270
VC OUT GND VCC
R934 1000/J3
IC923 TC7SH00FUTL
FS3
N5REF
L906 47U/LA
C930 0.1/UFV
C931 16V47/EVV
TG901 VJR0646
P5SYS
P9SYS
L903 47U/LA
L904 47U/LA
C916 0.1/UFV
C919 16V47/EVV
C920 0.1/UFV
C921 16V47/EVV
IC910 MC74HC125AFR
R918 470/J3
IC916 NJM082BM-T1
C932 0.1/UFV
C924 0.01/UBV
R920 47K/J3
R921 10K/RE7
R936 27K/DS (PAL ONLY)
R922 10K/RE7
C933 0.01/UBV
R923 22K/3300/J3
R924 1M/J3
C939 50V1/EVN(R)
R931 1000/J3
C940 1000P/USV
D901 MA152K-TX
C946 0.1/UFV
C947 16V47/EVV
X901 VSX0567A
VDD OUT VC GND
IC924 TC7SH00FUTL
C951 PAT/UV
R935 1000/J3
IC925 TC7SH00FUTL
CK1
ER1
WND1
N5SYS
L907 47U/LA
C925 0.1/UFV
C926 16V47/EVV
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

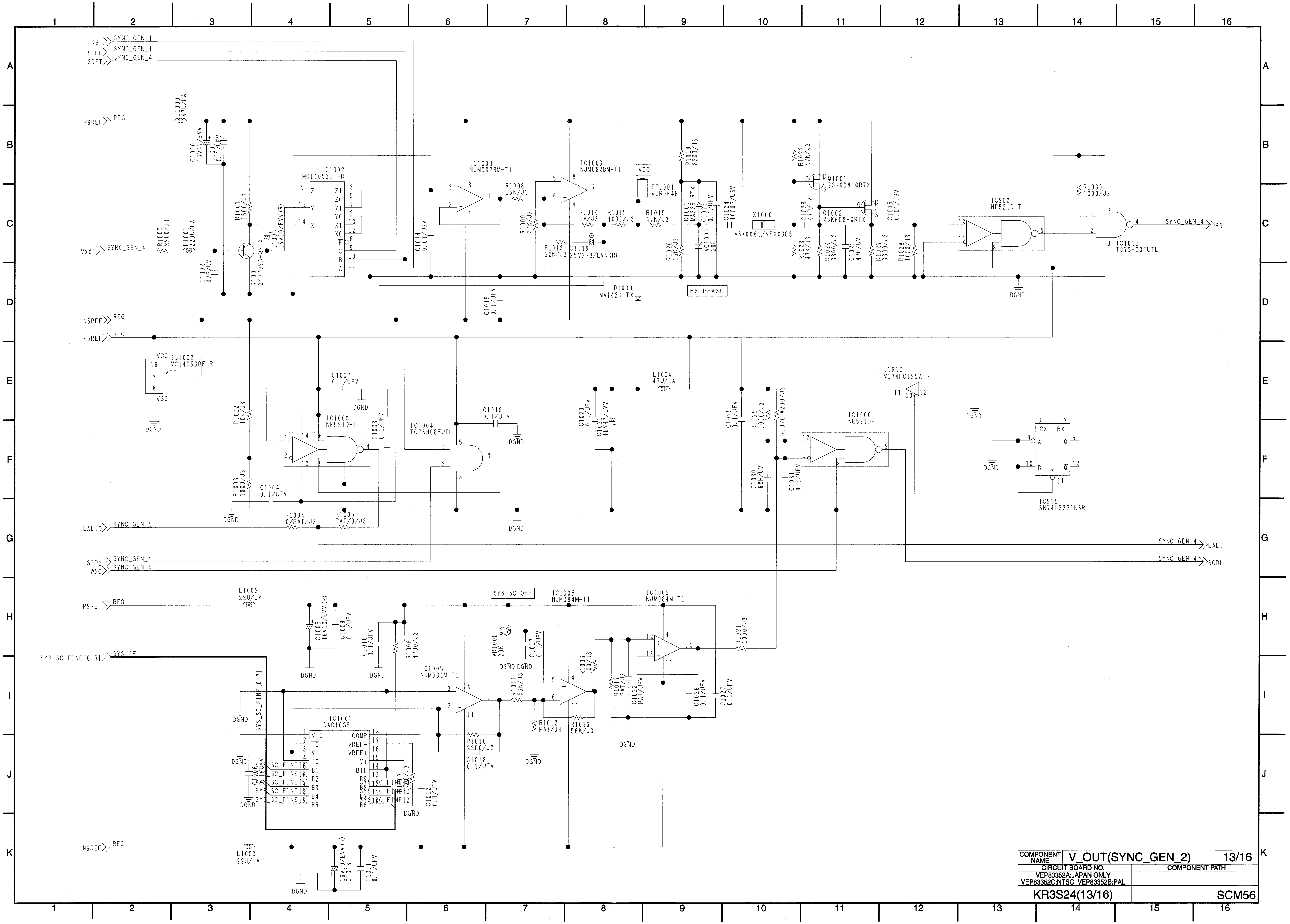
COMPONENT NAME V_OUT(SYNC_GEN_1) 12/16

CIRCUIT BOARD NO.
VEP83352A:JAPAN ONLY
VEP83352C:NTSC VEP83352B:PAL

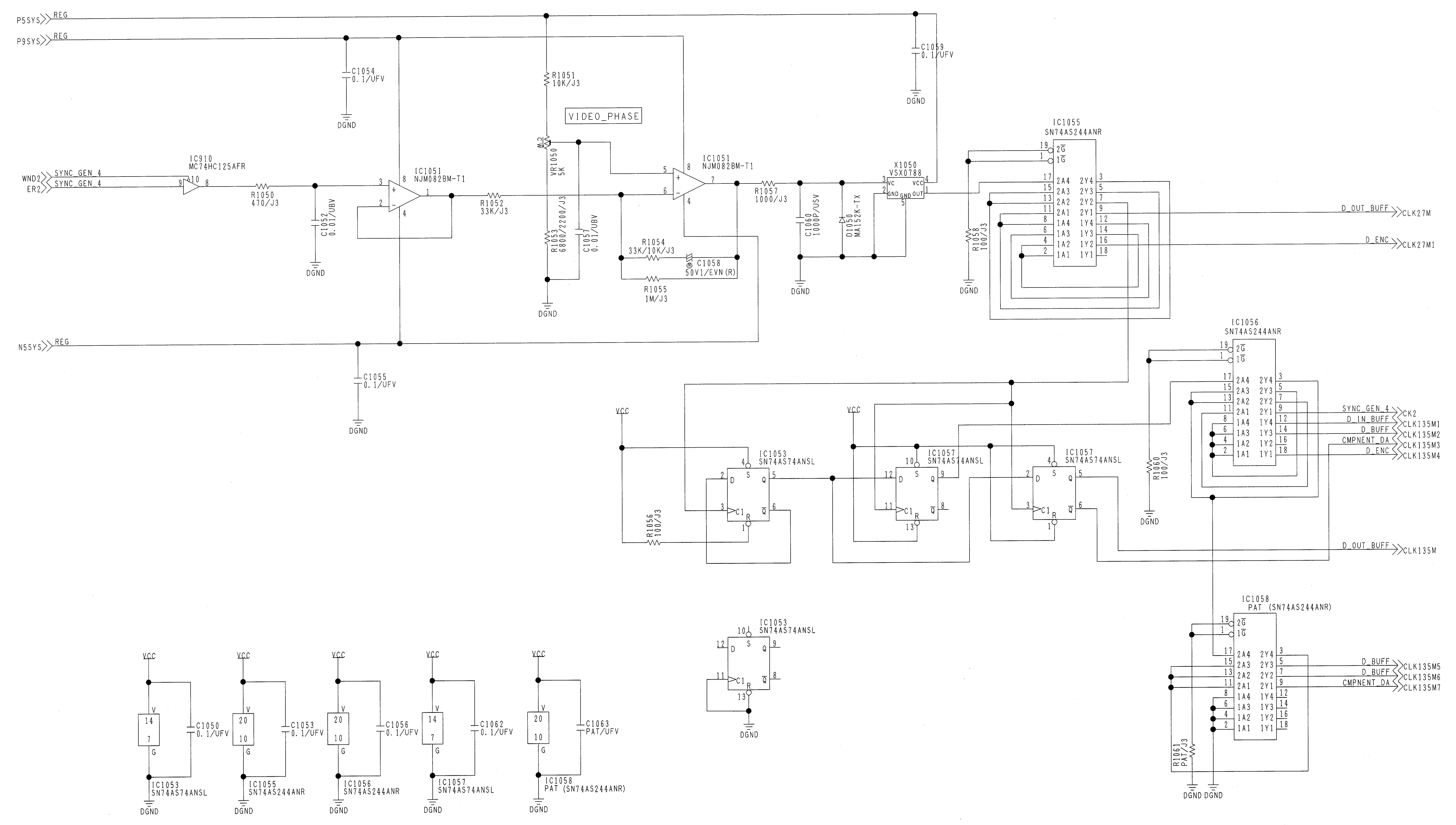
COMPONENT PATH

KR3S24(12/16)

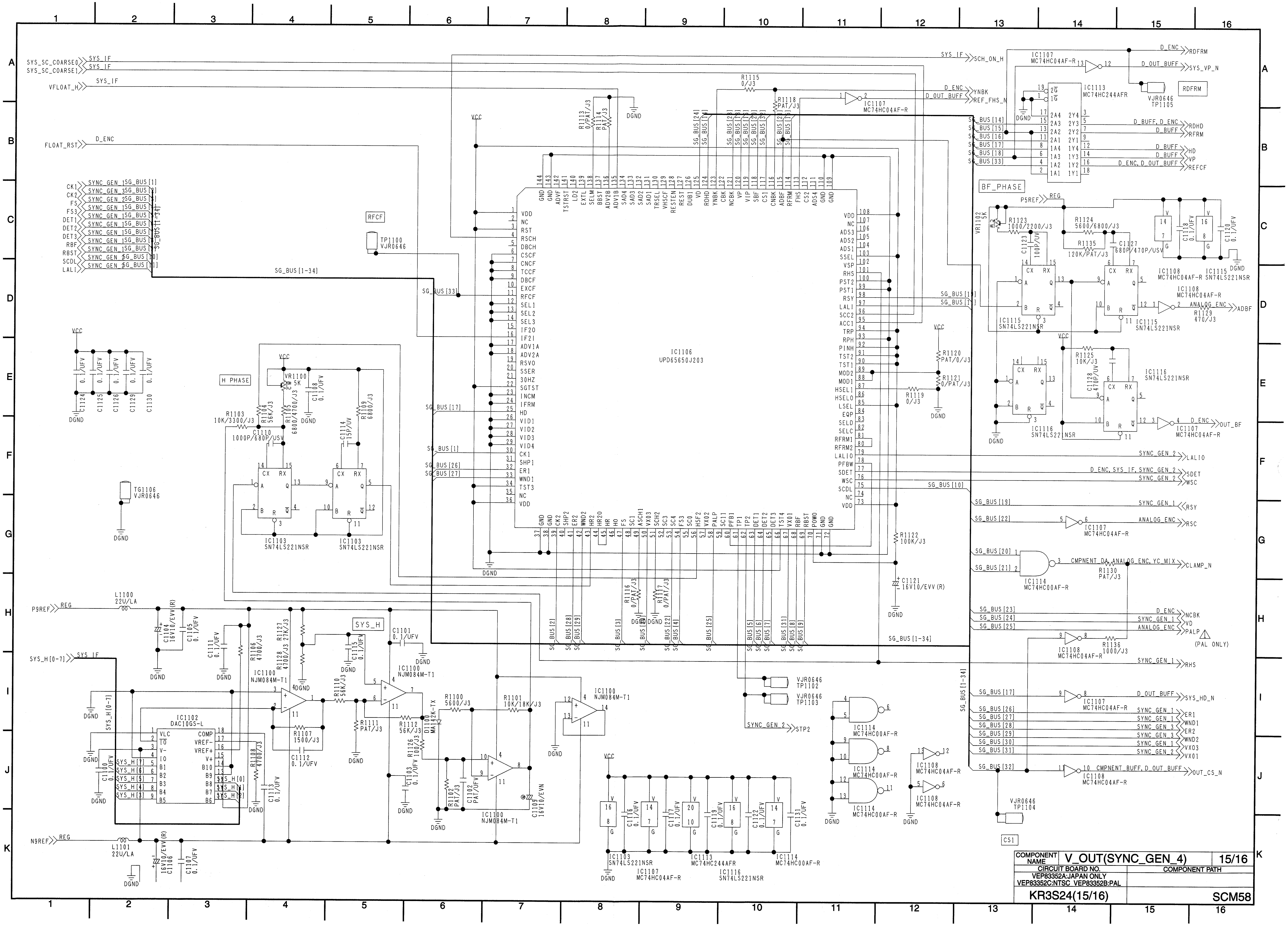
SCM55


RBF
S_HP
SDET
SYNC_GEN_1
SYNC_GEN_4
P9REF
REG
L1000
47U/LA
C1000
16V47/EVV
C1001
0.1/UFV
IC1002
MC14053BF-R
IC1003
NJM082BM-T1
R1008
15K/J3
R1009
27K/J3
R1013
22K/J3
C1019
25V3R3/EVN(R)
R1014
1M/J3
R1015
1000/J3
R1019
47K/J3
VCO
TP1001
VJR0646
R1018
8200/J3
D1001
MA335-RTX
C1023
0.1/UFV
C1024
1000P/USV
X1000
VSX0081/VSX0363
VC1000
20P
R1020
15K/J3
FS PHASE
D1000
MA142K-TX
R1022
47K/J3
Q1001
2SK608-QRTX
Q1002
2SK608-QRTX
C1028
47P/UV
R1023
47K/J3
R1024
3300/J3
C1029
47P/UV
R1027
3300/J3
C1035
0.01/UBV
R1028
1000/J3
IC902
NE521D-T
R1030
1000/J3
IC1015
TC7SH00FUTL
SYNC_GEN_4
FS
DGND
VXO1
R1000
2200/J3
L1001
220U/LA
C1002
82P/UV
Q1000
2SB709A-QRTX
R1001
1500/J3
C1003
16V10/EVV(R)
C1014
0.01/UBV
C1015
0.1/UFV
N5REF
P5REF
VCC
VEE
VSS
R1002
10K/J3
C1007
0.1/UFV
IC1000
NE521D-T
C1008
0.1/UFV
IC1004
TC7SH08FUTL
C1016
0.1/UFV
C1020
0.1/UFV
C1021
16V47/EVV
L1004
47U/LA
IC910
MC74HC125AFR
C1025
0.1/UFV
R1025
1000/J3
R1026
8200/J3
C1030
68P/UV
C1031
0.1/UFV
IC915
SN74LS221NSR
R1003
1000/J3
C1004
0.1/UFV
R1004
0/PAT/J3
R1005
PAT/0/J3
LALIO
LALI
SCDL
STP2
WSC
L1002
22U/LA
C1005
16V10/EVV(R)
C1009
0.1/UFV
C1010
0.1/UFV
R1006
4700/J3
SYS_SC_OFF
VR1000
20K
C1017
0.1/UFV
IC1005
NJM084M-T1
R1021
1000/J3
R1036
100/J3
R1017
PAT/J3
C1022
PAT/UFV
C1026
0.1/UFV
C1027
0.1/UFV
SYS_SC_FINE[0-7]
SYS_IF
R1011
56K/J3
R1012
PAT/J3
R1016
56K/J3
R1010
2200/J3
C1018
0.1/UFV
IC1001
DAC10GS-L
VLC
IO
V-
COMP
VREF-
VREF+
V+
B10
B1
B2
B3
B4
B5
C1006
R1007
C1012
0.1/UFV
N9REF
L1003
22U/LA
C1013
16V10/EVV(R)
C1011
0.1/UFV

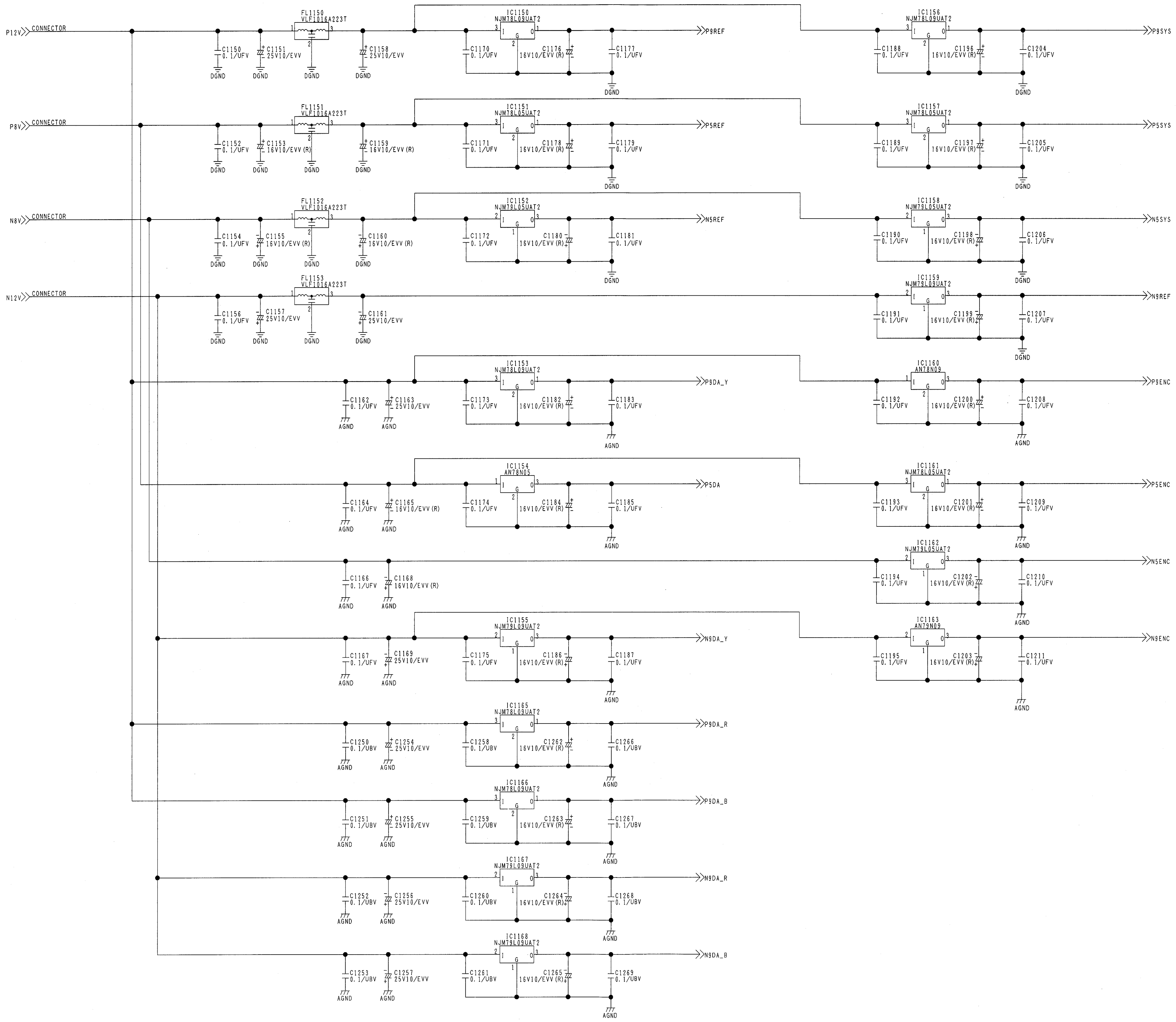
COMPONENT NAME	V_OUT(SYNC_GEN_2)	13/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(13/16)		SCM56


P5SYS
REG
P9SYS
REG
C1054
0.1/UFV
DGND
R1051
10K/J3
VIDEO_PHASE
C1059
0.1/UFV
DGND
IC1055
SN74AS244ANR
WND2
ER2
SYNC_GEN_4
SYNC_GEN_4
IC910
MC74HC125AFR
R1050
470/J3
C1052
0.01/UBV
IC1051
NJM082BM-T1
R1052
33K/J3
VR1050
5K
R1053
6800/2200/J3
C1057
0.01/UBV
R1054
33K/10K/J3
C1058
50V1/EVN(R)
R1055
1M/J3
IC1051
NJM082BM-T1
R1057
1000/J3
C1060
1000P/USV
D1050
MA152K-TX
X1050
VSX0788
R1058
100/J3
D_OUT_BUFF
CLK27M
D_ENC
CLK27M1
N5SYS
REG
C1055
0.1/UFV
IC1056
SN74AS244ANR
VCC
IC1053
SN74AS74ANSL
R1056
100/J3
IC1057
SN74AS74ANSL
IC1057
SN74AS74ANSL
R1060
100/J3
SYNC_GEN_4
CK2
D_IN_BUFF
CLK135M1
D_BUFF
CLK135M2
CMPNENT_DA
CLK135M3
D_ENC
CLK135M4
D_OUT_BUFF
CLK135M
IC1058
PAT (SN74AS244ANR)
D_BUFF
CLK135M5
D_BUFF
CLK135M6
CMPNENT_DA
CLK135M7
R1061
PAT/J3
IC1053
SN74AS74ANSL
C1050
0.1/UFV
IC1053
SN74AS74ANSL
C1053
0.1/UFV
IC1055
SN74AS244ANR
C1056
0.1/UFV
IC1056
SN74AS244ANR
C1062
0.1/UFV
IC1057
SN74AS74ANSL
C1063
PAT/UFV
IC1058
PAT (SN74AS244ANR)

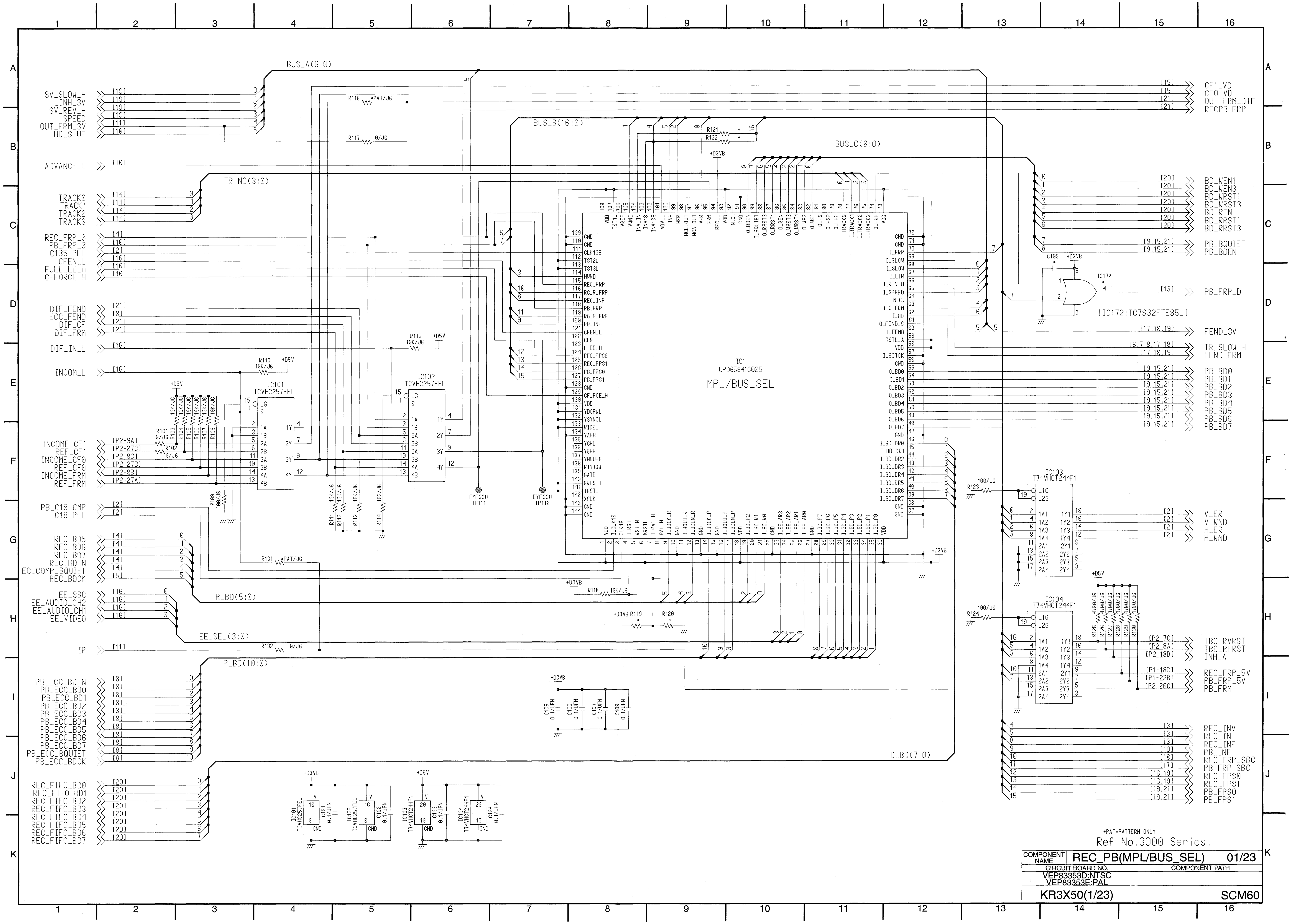
COMPONENT NAME	V_OUT(SYNC_GEN_3)	14/16
CIRCUIT BOARD NO. VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		COMPONENT PATH
KR3S24(14/16)		SCM57


SYS_SC_COARSE0
SYS_SC_COARSE1
VFLOAT_H
FLOAT_RST
SYS_IF
D_ENC
SCH_ON_H
RDFRM
SYS_VP_N
YNBK
REF_FHS_N
RDHD
RFRM
HD
VP
REFCF
IC1107 MC74HC04AF-R
IC1113 MC74HC244AFR
VJR0646 TP1105
BF_PHASE
P5REF
IC1108 MC74HC04AF-R
IC1115 SN74LS221NSR
IC1116 SN74LS221NSR
ADBF
OUT_BF
LALIO
SDET
WSC
RSY
RSC
CLAMP_N
NCBK
VD
PALP
(PAL ONLY)
RHS
SYS_HD_N
ER1
WND1
ER2
WND2
VXO3
VXO1
OUT_CS_N
IC1114 MC74HC00AF-R
STP2
VJR0646 TP1102
VJR0646 TP1103
VJR0646 TP1104
CS1
IC1106 UPD65650J203
SG_BUS [1-34]
RFCF
TP1100 VJR0646
H PHASE
IC1103 SN74LS221NSR
VR1100 5K
TG1106 VJR0646
SYNC_GEN_1
SYNC_GEN_2
SYNC_GEN_3
CK1
CK2
FS
FS3
DET1
DET2
DET3
RBF
RBST
SCDL
LALI
VCC
DGND
P9REF
N9REF
L1100 22U/LA
L1101 22U/LA
SYS_H
SYS_H[0-7]
IC1102 DAC10GS-L
IC1100 NJM084M-T1
D1100 MA142K-TX
IC1107 MC74HC04AF-R
IC1113 MC74HC244AFR
IC1116 SN74LS221NSR
IC1103 SN74LS221NSR
IC1114 MC74HC00AF-R

COMPONENT NAME	V_OUT(SYNC_GEN_4)	15/16
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(15/16)		SCM58


P12V
CONNECTOR
FL1150
VLF1016A223T
C1150
0. 1/UFV
C1151
25V10/EVV
C1158
25V10/EVV
DGND
IC1150
NJM78L09UAT2
C1170
0. 1/UFV
C1176
16V10/EVV (R)
C1177
0. 1/UFV
P9REF
IC1156
NJM78L09UAT2
C1188
0. 1/UFV
C1196
16V10/EVV (R)
C1204
0. 1/UFV
P9SYS
P8V
CONNECTOR
FL1151
VLF1016A223T
C1152
0. 1/UFV
C1153
16V10/EVV (R)
C1159
16V10/EVV (R)
IC1151
NJM78L05UAT2
C1171
0. 1/UFV
C1178
16V10/EVV (R)
C1179
0. 1/UFV
P5REF
IC1157
NJM78L05UAT2
C1189
0. 1/UFV
C1197
16V10/EVV (R)
C1205
0. 1/UFV
P5SYS
N8V
CONNECTOR
FL1152
VLF1016A223T
C1154
0. 1/UFV
C1155
16V10/EVV (R)
C1160
16V10/EVV (R)
IC1152
NJM79L05UAT2
C1172
0. 1/UFV
C1180
16V10/EVV (R)
C1181
0. 1/UFV
N5REF
IC1158
NJM79L05UAT2
C1190
0. 1/UFV
C1198
16V10/EVV (R)
C1206
0. 1/UFV
N5SYS
N12V
CONNECTOR
FL1153
VLF1016A223T
C1156
0. 1/UFV
C1157
25V10/EVV
C1161
25V10/EVV
IC1159
NJM79L09UAT2
C1191
0. 1/UFV
C1199
16V10/EVV (R)
C1207
0. 1/UFV
N9REF
C1162
0. 1/UFV
C1163
25V10/EVV
AGND
IC1153
NJM78L09UAT2
C1173
0. 1/UFV
C1182
16V10/EVV (R)
C1183
0. 1/UFV
P9DA_Y
IC1160
AN78N09
C1192
0. 1/UFV
C1200
16V10/EVV (R)
C1208
0. 1/UFV
P9ENC
C1164
0. 1/UFV
C1165
16V10/EVV (R)
IC1154
AN78N05
C1174
0. 1/UFV
C1184
16V10/EVV (R)
C1185
0. 1/UFV
P5DA
IC1161
NJM78L05UAT2
C1193
0. 1/UFV
C1201
16V10/EVV (R)
C1209
0. 1/UFV
P5ENC
C1166
0. 1/UFV
C1168
16V10/EVV (R)
IC1162
NJM79L05UAT2
C1194
0. 1/UFV
C1202
16V10/EVV (R)
C1210
0. 1/UFV
N5ENC
C1167
0. 1/UFV
C1169
25V10/EVV
IC1155
NJM79L09UAT2
C1175
0. 1/UFV
C1186
16V10/EVV (R)
C1187
0. 1/UFV
N9DA_Y
IC1163
AN79N09
C1195
0. 1/UFV
C1203
16V10/EVV (R)
C1211
0. 1/UFV
N9ENC
C1250
0. 1/UBV
C1254
25V10/EVV
IC1165
NJM78L09UAT2
C1258
0. 1/UBV
C1262
16V10/EVV (R)
C1266
0. 1/UBV
P9DA_R
C1251
0. 1/UBV
C1255
25V10/EVV
IC1166
NJM78L09UAT2
C1259
0. 1/UBV
C1263
16V10/EVV (R)
C1267
0. 1/UBV
P9DA_B
C1252
0. 1/UBV
C1256
25V10/EVV
IC1167
NJM79L09UAT2
C1260
0. 1/UBV
C1264
16V10/EVV (R)
C1268
0. 1/UBV
N9DA_R
C1253
0. 1/UBV
C1257
25V10/EVV
IC1168
NJM79L09UAT2
C1261
0. 1/UBV
C1265
16V10/EVV (R)
C1269
0. 1/UBV
N9DA_B

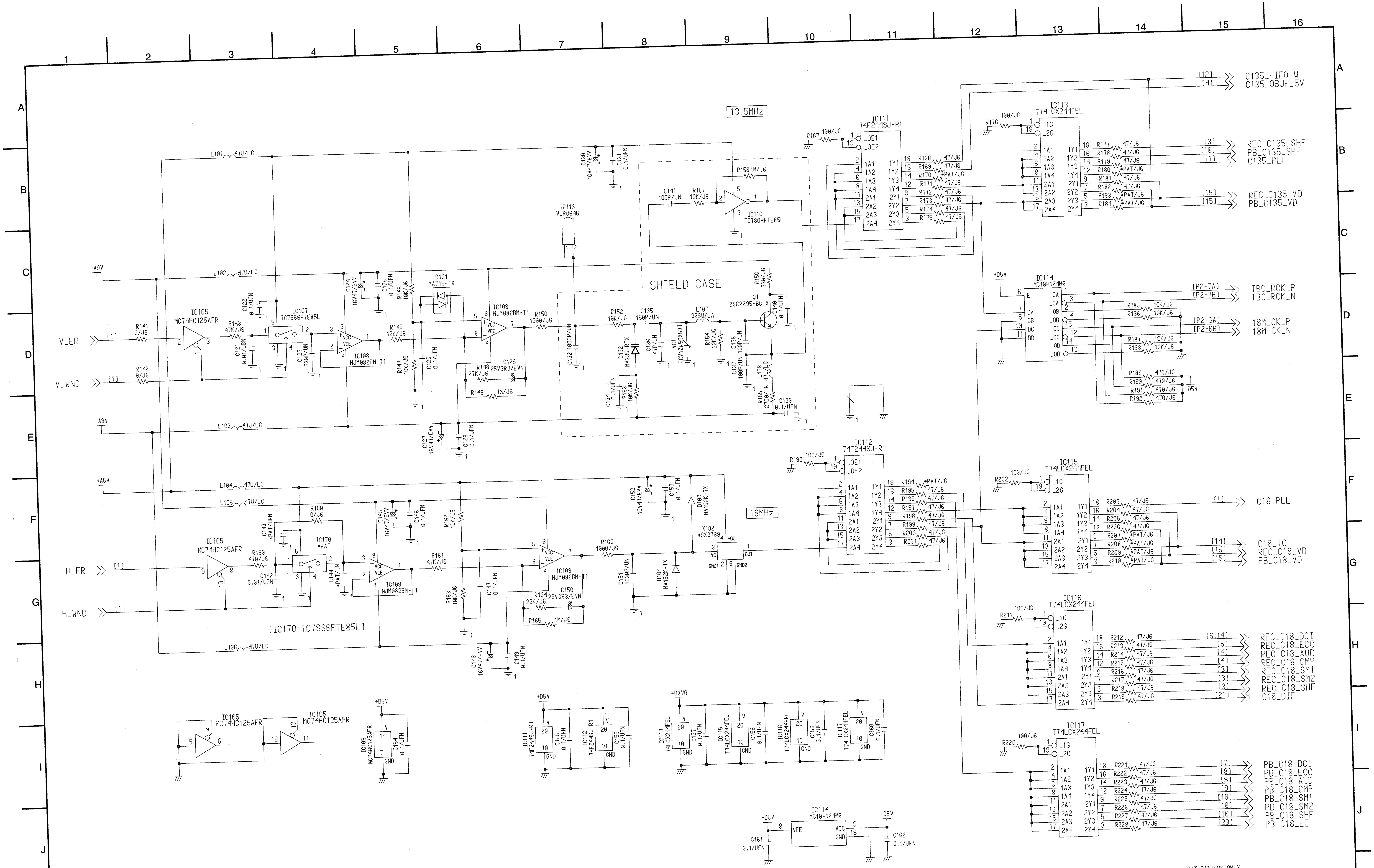
COMPONENT NAME	V_OUT(REG)	16/16
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83352A:JAPAN ONLY VEP83352C:NTSC VEP83352B:PAL		
KR3S24(16/16)	SCM59	


BUS_A(6:0)
BUS_B(16:0)
BUS_C(8:0)
TR_NO(3:0)
R_BD(5:0)
EE_SEL(3:0)
P_BD(10:0)
D_BD(7:0)
SV_SLOW_H
LINH_3V
SV_REV_H
SPEED
OUT_FRM_3V
HD_SHUF
ADVANCE_L
TRACK0
TRACK1
TRACK2
TRACK3
REC_FRP_3
PB_FRP_3
C135_PLL
CFEN_L
FULL_EE_H
CFFORCE_H
DIF_FEND
ECC_FEND
DIF_CF
DIF_FRM
DIF_IN_L
INCOM_L
INCOME_CF1
REF_CF1
INCOME_CF0
REF_CF0
INCOME_FRM
REF_FRM
PB_C18_CMP
C18_PLL
REC_BD5
REC_BD6
REC_BD7
REC_BDEN
EC_COMP_BQUIET
REC_BDCK
EE_SBC
EE_AUDIO_CH2
EE_AUDIO_CH1
EE_VIDEO
IP
PB_ECC_BDEN
PB_ECC_BD0
PB_ECC_BD1
PB_ECC_BD2
PB_ECC_BD3
PB_ECC_BD4
PB_ECC_BD5
PB_ECC_BD6
PB_ECC_BD7
PB_ECC_BQUIET
PB_ECC_BDCK
REC_FIFO_BD0
REC_FIFO_BD1
REC_FIFO_BD2
REC_FIFO_BD3
REC_FIFO_BD4
REC_FIFO_BD5
REC_FIFO_BD6
REC_FIFO_BD7
CF1_VD
CF0_VD
OUT_FRM_DIF
RECPB_FRP
BD_WEN1
BD_WEN3
BD_WRST1
BD_WRST3
BD_REN
BD_RRST1
BD_RRST3
PB_BQUIET
PB_BDEN
PB_FRP_D
FEND_3V
TR_SLOW_H
FEND_FRM
PB_BD0
PB_BD1
PB_BD2
PB_BD3
PB_BD4
PB_BD5
PB_BD6
PB_BD7
V_ER
V_WND
H_ER
H_WND
TBC_RVRST
TBC_RHRST
INH_A
REC_FRP_5V
PB_FRP_5V
PB_FRM
REC_INV
REC_INH
REC_INF
PB_INF
REC_FRP_SBC
PB_FRP_SBC
REC_FPS0
REC_FPS1
PB_FPS0
PB_FPS1
IC1
UPD65841GC025
MPL/BUS_SEL
IC101
TCVHC257FEL
IC102
TCVHC257FEL
IC103
T74VHCT244F1
IC104
T74VHCT244F1
IC172
[IC172:TC7S32FTE85L]
C109
R116 *PAT/J6
R117 0/J6
R121
R122
R115 10K/J6
R110 10K/J6
R101 0/J6
R102 0/J6
R103
R104
R105
R106
R107
R108
10K/J6
R109 100/J6
R111
R112
R113
R114 100/J6
R131 *PAT/J6
R132 0/J6
R118 10K/J6
R119
R120
R123 100/J6
R124 100/J6
R125
R126
R127
R128
R129
R130
4700/J6
C105
C106
C107
C108
0.1/UFN
C101
C102
C103
C104
EYF6CU TP111
EYF6CU TP112
+D5V
+D3VB
GND

*PAT=PATTERN ONLY

Ref No.3000 Series.

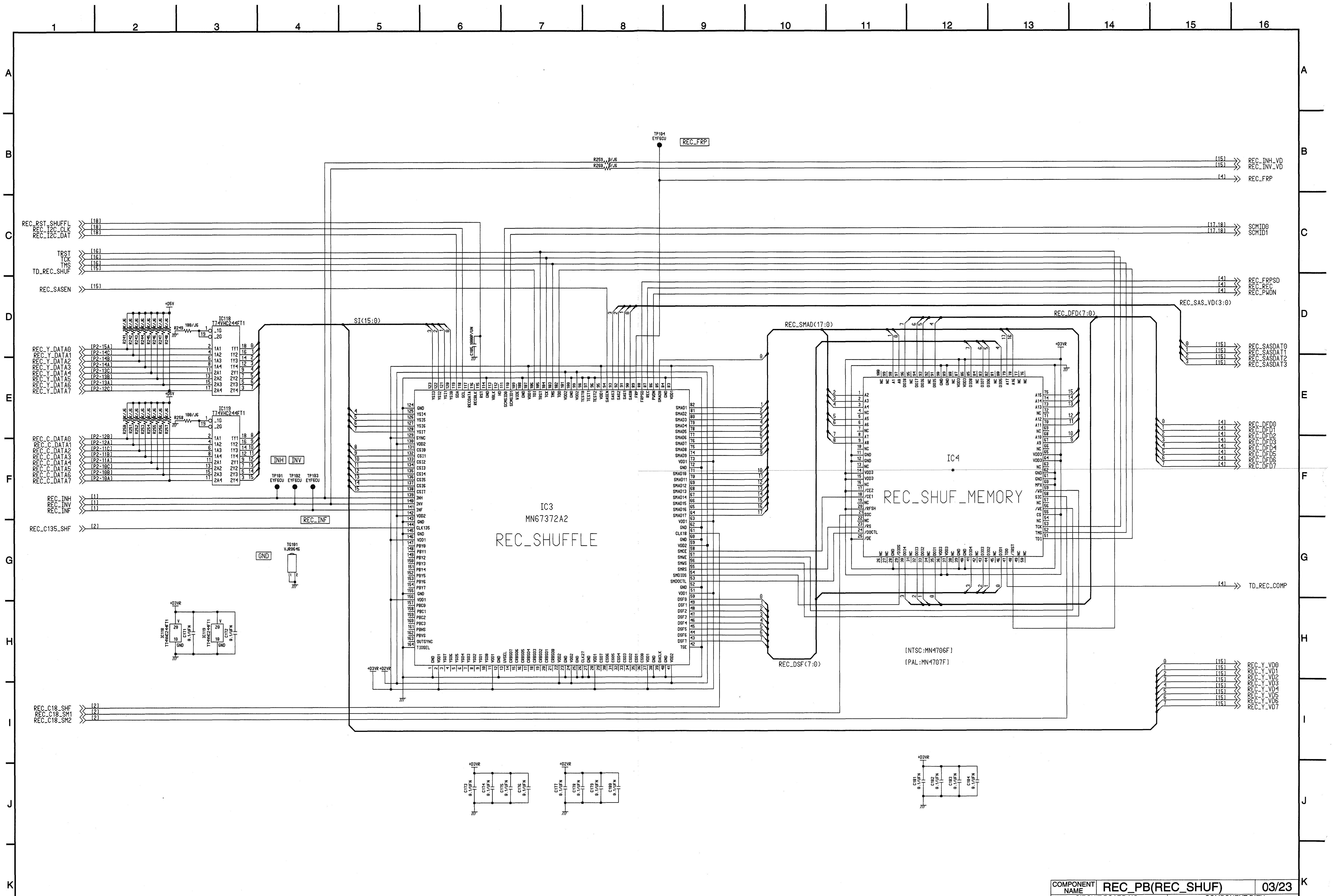
COMPONENT NAME	REC_PB(MPL/BUS_SEL)	01/23
CIRCUIT BOARD NO. VEP83353D:NTSC VEP83353E:PAL	COMPONENT PATH	
KR3X50(1/23)		SCM60


13.5MHz
18MHz
SHIELD CASE
V_ER
V_WND
H_ER
H_WND
+A5V
-A9V
+D5V
+D3VB
-D5V
IC105 MC74HC125AFR
IC107 TC7S66FTE85L
IC108 NJM082BM-T1
IC109 NJM082BM-T1
IC110 TC7S04FTE85L
IC111 74F244SJ-R1
IC112 74F244SJ-R1
IC113 T74LCX244FEL
IC114 MC10H124MR
IC115 T74LCX244FEL
IC116 T74LCX244FEL
IC117 T74LCX244FEL
IC170 *PAT
[IC170:TC7S66FTE85L]
Q1 2SC2295-BCTX
X102 VSX0789
TP113 VJR0646
D101 MA715-TX
D102 MA335-RTX
D103 MA152K-TX
D104 MA152K-TX
C135_FIFO_W
C135_OBUF_5V
REC_C135_SHF
PB_C135_SHF
C135_PLL
REC_C135_VD
PB_C135_VD
TBC_RCK_P
TBC_RCK_N
18M_CK_P
18M_CK_N
C18_PLL
C18_TC
REC_C18_VD
PB_C18_VD
REC_C18_DCI
REC_C18_ECC
REC_C18_AUD
REC_C18_CMP
REC_C18_SM1
REC_C18_SM2
REC_C18_SHF
C18_DIF
PB_C18_DCI
PB_C18_ECC
PB_C18_AUD
PB_C18_CMP
PB_C18_SM1
PB_C18_SM2
PB_C18_SHF
PB_C18_EE

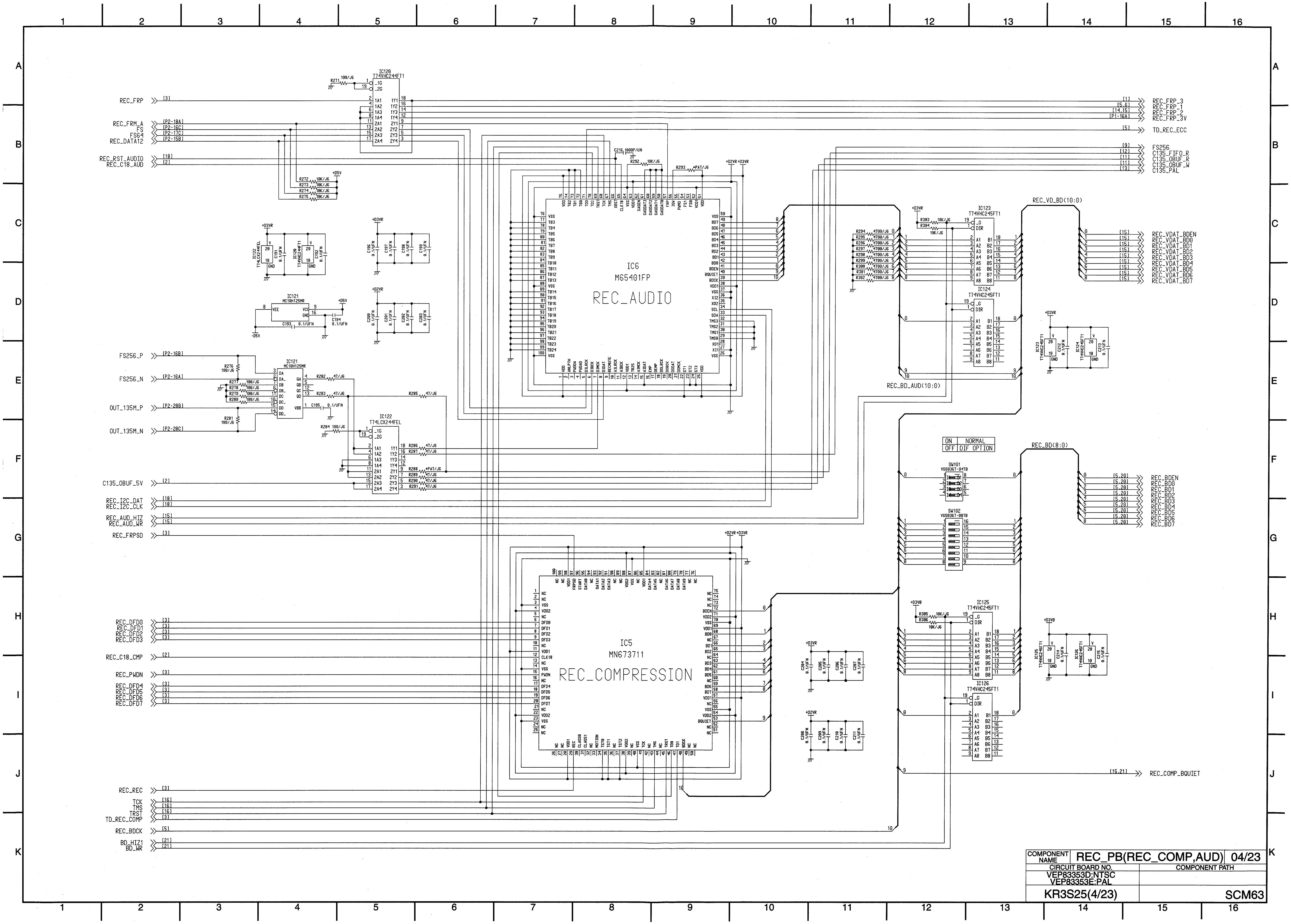
*PAT=PATTERN ONLY

Ref No.3000 Series.

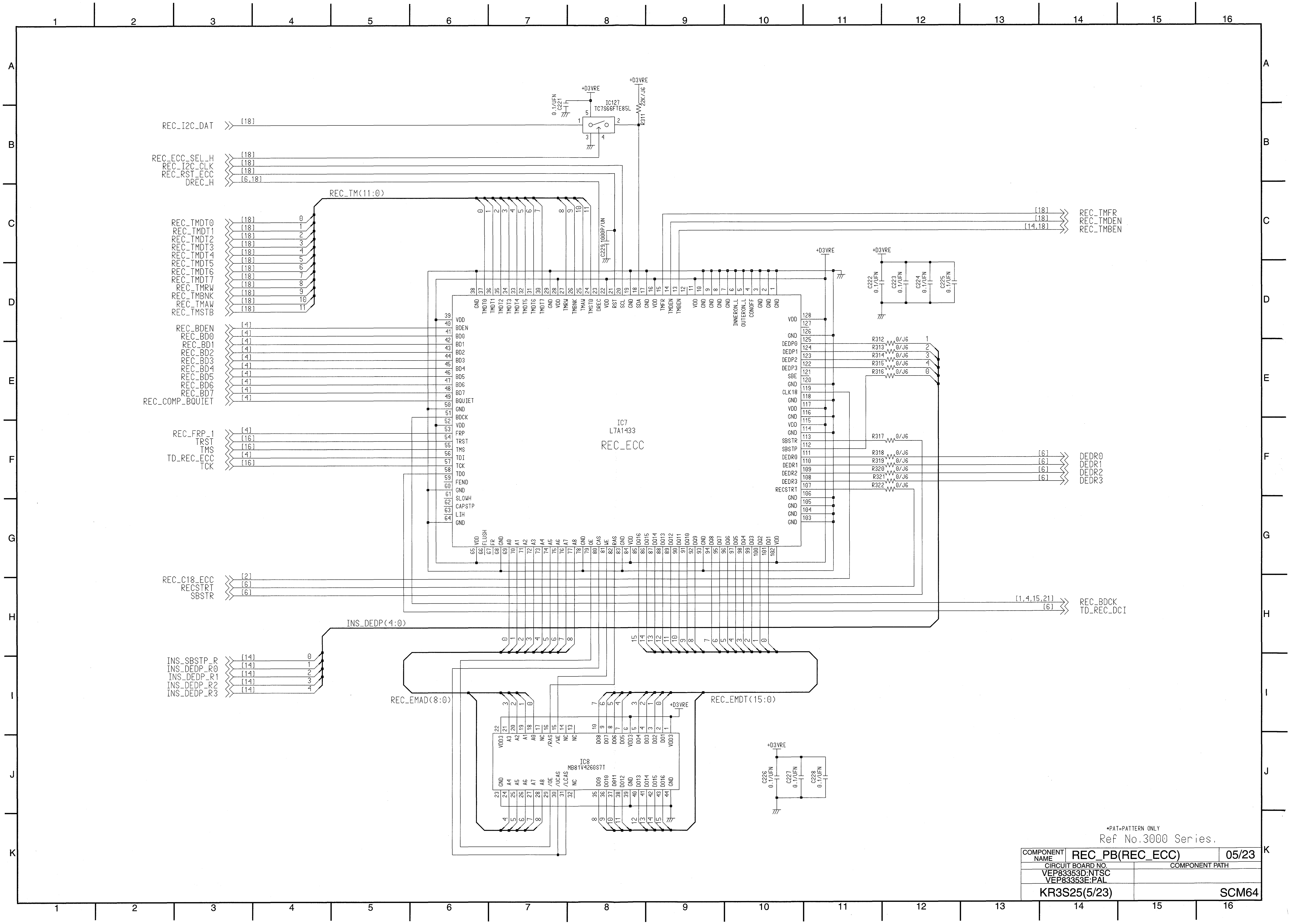
COMPONENT NAME	REC_PB(PLL)	02/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(2/23)	SCM61	

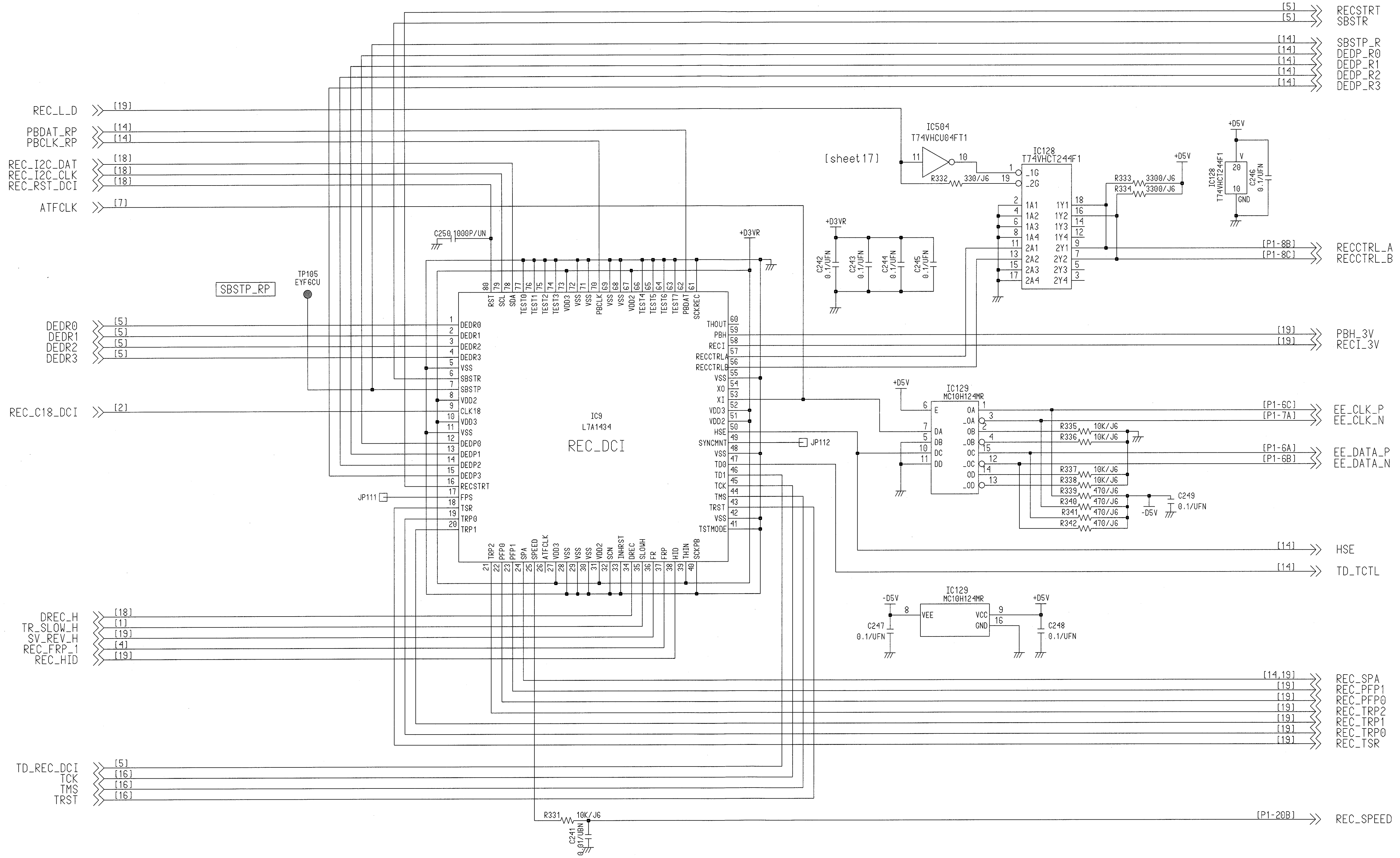

REC_RST_SHUFFL
REC_I2C_CLK
REC_I2C_DAT
TRST
TCK
TMS
TD_REC_SHUF
REC_SASEN
REC_Y_DATA0
REC_Y_DATA1
REC_Y_DATA2
REC_Y_DATA3
REC_Y_DATA4
REC_Y_DATA5
REC_Y_DATA6
REC_Y_DATA7
REC_C_DATA0
REC_C_DATA1
REC_C_DATA2
REC_C_DATA3
REC_C_DATA4
REC_C_DATA5
REC_C_DATA6
REC_C_DATA7
REC_INH
REC_INV
REC_INF
REC_C135_SHF
REC_C18_SHF
REC_C18_SM1
REC_C18_SM2
IC118
T74VHC244FT1
IC119
T74VHC244FT1
+D5V
SI(15:0)
INH
INV
REC_INF
TP191 EYF6CU
TP192 EYF6CU
TP193 EYF6CU
GND
TG191 VJR8646
+D3VR
+D2VR
TP194 EYF6CU
REC_FRP
R259
R260
IC3
MN67372A2
REC_SHUFFLE
REC_SMAD(17:0)
REC_DSF(7:0)
REC_DFD(7:0)
REC_SAS_VD(3:0)
IC4
REC_SHUF_MEMORY
[NTSC:MN4706F]
[PAL:MN4707F]
REC_INH_VD
REC_INV_VD
REC_FRP
SCMID0
SCMID1
REC_FRPSD
REC_REC
REC_PWDN
REC_SASDAT0
REC_SASDAT1
REC_SASDAT2
REC_SASDAT3
REC_DFD0
REC_DFD1
REC_DFD2
REC_DFD3
REC_DFD4
REC_DFD5
REC_DFD6
REC_DFD7
TD_REC_COMP
REC_Y_VD0
REC_Y_VD1
REC_Y_VD2
REC_Y_VD3
REC_Y_VD4
REC_Y_VD5
REC_Y_VD6
REC_Y_VD7

COMPONENT NAME	REC_PB(REC_SHUF)	03/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(3/23)	SCM62	


IC6
M65401FP
REC_AUDIO
IC5
MN673711
REC_COMPRESSION
IC120 T74VHC244FT1
IC121 MC10H125MR
IC122 T74LCX244FEL
IC123 T74VHC245FT1
IC124 T74VHC245FT1
IC125 T74VHC245FT1
IC126 T74VHC245FT1
SW101 VSS0367-04TB
SW102 VSS0367-08TB
ON NORMAL
OFF DIF OPTION
REC_FRP
REC_FRM_A
FS
FSG4
REC_DATA12
REC_RST_AUDIO
REC_C18_AUD
FS256_P
FS256_N
OUT_135M_P
OUT_135M_N
C135_OBUF_5V
REC_I2C_DAT
REC_I2C_CLK
REC_AUD_HIZ
REC_AUD_WR
REC_FRPSD
REC_DFD0
REC_DFD1
REC_DFD2
REC_DFD3
REC_C18_CMP
REC_PWDN
REC_DFD4
REC_DFD5
REC_DFD6
REC_DFD7
REC_REC
TCK
TMS
TRST
TD_REC_COMP
REC_BDCK
BD_HIZ1
BD_WR
REC_FRP_3
REC_FRP_1
REC_FRP_2
REC_FRP_3V
TD_REC_ECC
FS256
C135_FIFO_R
C135_OBUF_R
C135_OBUF_W
C135_PAL
REC_VD_BD(10:0)
REC_VDAT_BDEN
REC_VDAT_BD0
REC_VDAT_BD1
REC_VDAT_BD2
REC_VDAT_BD3
REC_VDAT_BD4
REC_VDAT_BD5
REC_VDAT_BD6
REC_VDAT_BD7
REC_BD_AUD(10:0)
REC_BD(8:0)
REC_BDEN
REC_BD0
REC_BD1
REC_BD2
REC_BD3
REC_BD4
REC_BD5
REC_BD6
REC_BD7
REC_COMP_BQUIET
+D3VR
+D2VR
+D5V
-D5V
+D3VB

COMPONENT NAME	REC_PB(REC_COMP,AUD)	04/23
CIRCUIT BOARD NO. VEP83353D:NTSC VEP83353E:PAL	COMPONENT PATH	
KR3S25(4/23)	SCM63	

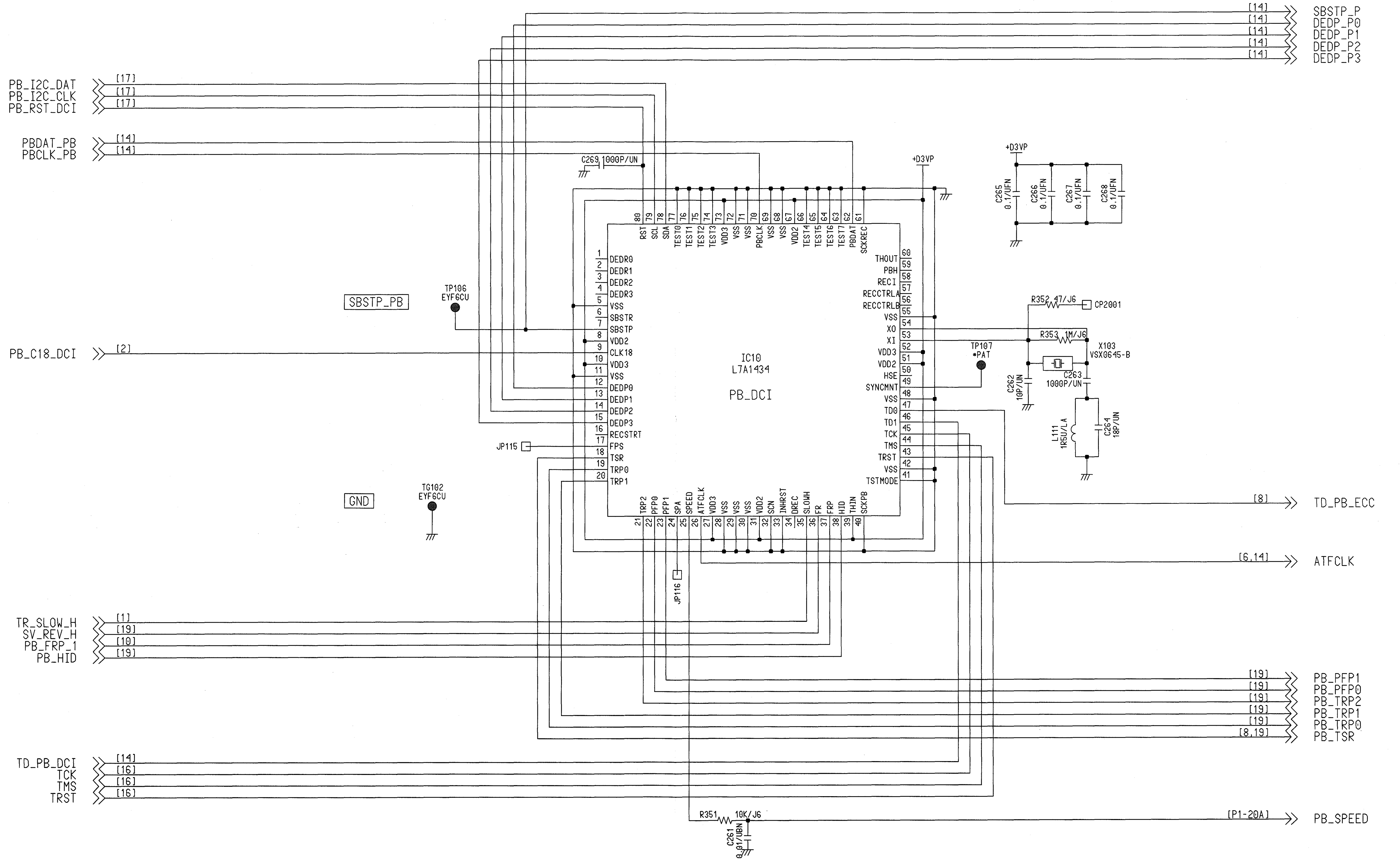

REC_I2C_DAT
REC_ECC_SEL_H
REC_I2C_CLK
REC_RST_ECC
DREC_H
REC_TM(11:0)
REC_TMDT0
REC_TMDT1
REC_TMDT2
REC_TMDT3
REC_TMDT4
REC_TMDT5
REC_TMDT6
REC_TMDT7
REC_TMRW
REC_TMBNK
REC_TMAW
REC_TMSTB
REC_BDEN
REC_BD0
REC_BD1
REC_BD2
REC_BD3
REC_BD4
REC_BD5
REC_BD6
REC_BD7
REC_COMP_BQUIET
REC_FRP_1
TRST
TMS
TD_REC_ECC
TCK
REC_C18_ECC
RECSTRT
SBSTR
INS_DEDP(4:0)
INS_SBSTP_R
INS_DEDP_R0
INS_DEDP_R1
INS_DEDP_R2
INS_DEDP_R3
REC_EMAD(8:0)
REC_EMDT(15:0)
+D3VRE
IC127
TC7SG66FTE85L
R311 22K/J6
C221 0.1/UFN
C229 1000P/UN
REC_TMFR
REC_TMDEN
REC_TMBEN
C222 0.1/UFN
C223 0.1/UFN
C224 0.1/UFN
C225 0.1/UFN
IC7
L7A1433
REC_ECC
R312 0/J6
R313 0/J6
R314 0/J6
R315 0/J6
R316 0/J6
R317 0/J6
R318 0/J6
R319 0/J6
R320 0/J6
R321 0/J6
R322 0/J6
DEDR0
DEDR1
DEDR2
DEDR3
REC_BDCK
TD_REC_DCI
IC8
MB81V4260S7T
C226 0.1/UFN
C227 0.1/UFN
C228 0.1/UFN
*PAT=PATTERN ONLY
Ref No.3000 Series.
COMPONENT NAME
REC_PB(REC_ECC)
05/23
CIRCUIT BOARD NO.
VEP83353D:NTSC
VEP83353E:PAL
COMPONENT PATH
KR3S25(5/23)
SCM64


RECSTRT
SBSTR
SBSTP_R
DEDP_R0
DEDP_R1
DEDP_R2
DEDP_R3
REC_L_D
PBDAT_RP
PBCLK_RP
REC_I2C_DAT
REC_I2C_CLK
REC_RST_DCI
ATFCLK
IC504
T74VHCU04FT1
[sheet17]
R332 330/J6
IC128
T74VHCT244F1
R333 3300/J6
R334 3300/J6
+D5V
C246 0.1/UFN
C250 1000P/UN
+D3VR
C242 0.1/UFN
C243 0.1/UFN
C244 0.1/UFN
C245 0.1/UFN
RECCTRL_A
RECCTRL_B
SBSTP_RP
TP105
EYF6CU
DEDR0
DEDR1
DEDR2
DEDR3
REC_C18_DCI
IC9
L7A1434
REC_DCI
JP111
JP112
PBH_3V
RECI_3V
IC129
MC10H124MR
R335 10K/J6
R336 10K/J6
R337 10K/J6
R338 10K/J6
R339 470/J6
R340 470/J6
R341 470/J6
R342 470/J6
C249 0.1/UFN
-D5V
EE_CLK_P
EE_CLK_N
EE_DATA_P
EE_DATA_N
HSE
TD_TCTL
C247 0.1/UFN
C248 0.1/UFN
DREC_H
TR_SLOW_H
SV_REV_H
REC_FRP_1
REC_HID
REC_SPA
REC_PFP1
REC_PFP0
REC_TRP2
REC_TRP1
REC_TRP0
REC_TSR
TD_REC_DCI
TCK
TMS
TRST
R331 10K/J6
C241 0.01/UBN
REC_SPEED

*PAT=PATTERN ONLY

Ref No.3000 Series.

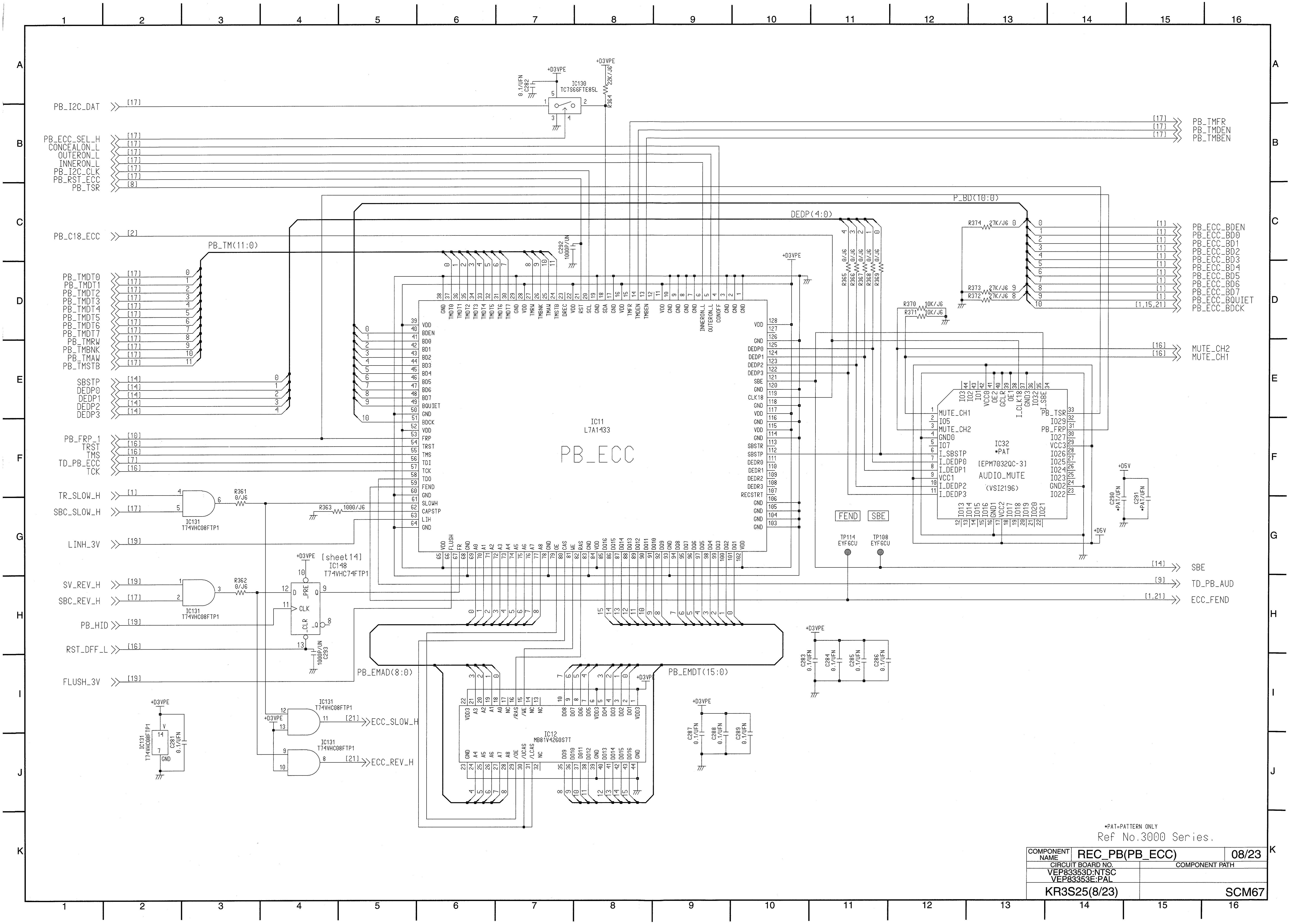
COMPONENT NAME	REC_PB(REC_DCI)	06/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(6/23)		SCM65


SBSTP_P
DEDP_P0
DEDP_P1
DEDP_P2
DEDP_P3
[14]
PB_I2C_DAT
PB_I2C_CLK
PB_RST_DCI
[17]
PBDAT_PB
PBCLK_PB
C269 1000P/UN
+D3VP
C265 0.1/UFN
C266 0.1/UFN
C267 0.1/UFN
C268 0.1/UFN
SBSTP_PB
TP106 EYF6CU
PB_C18_DCI
[2]
IC10
L7A1434
PB_DCI
RST
SCL
SDA
TEST0
TEST1
TEST2
TEST3
VDD3
VSS
PBCLK
VDD2
TEST4
TEST5
TEST6
TEST7
PBDAT
SCKREC
DEDR0
DEDR1
DEDR2
DEDR3
SBSTR
SBSTP
CLK18
DEDP0
DEDP1
DEDP2
DEDP3
RECSTRT
FPS
TSR
TRP0
TRP1
TRP2
PFP0
PFP1
SPA
SPEED
ATFCLK
SCN
INHRST
DREC
SLOWH
FR
FRP
HID
THIN
SCKPB
THOUT
PBH
RECI
RECCTRLA
RECCTRLB
XO
XI
HSE
SYNCMNT
TD0
TD1
TCK
TMS
TRST
TSTMODE
R352 47/J6
CP2001
R353 1M/J6
X103 VSX0645-B
TP107 *PAT
C263 1000P/UN
C262 18P/UN
L111 1R5U/LA
C264 18P/UN
JP115
TG102 EYF6CU
GND
TD_PB_ECC
[8]
ATFCLK
[6,14]
JP116
TR_SLOW_H
SV_REV_H
PB_FRP_1
PB_HID
[1]
[19]
[10]
PB_PFP1
PB_PFP0
PB_TRP2
PB_TRP1
PB_TRP0
PB_TSR
[8,19]
TD_PB_DCI
TCK
TMS
TRST
[16]
R351 10K/J6
C261 0.01/UBN
PB_SPEED
[P1-20A]

*PAT=PATTERN ONLY

Ref No.3000 Series.

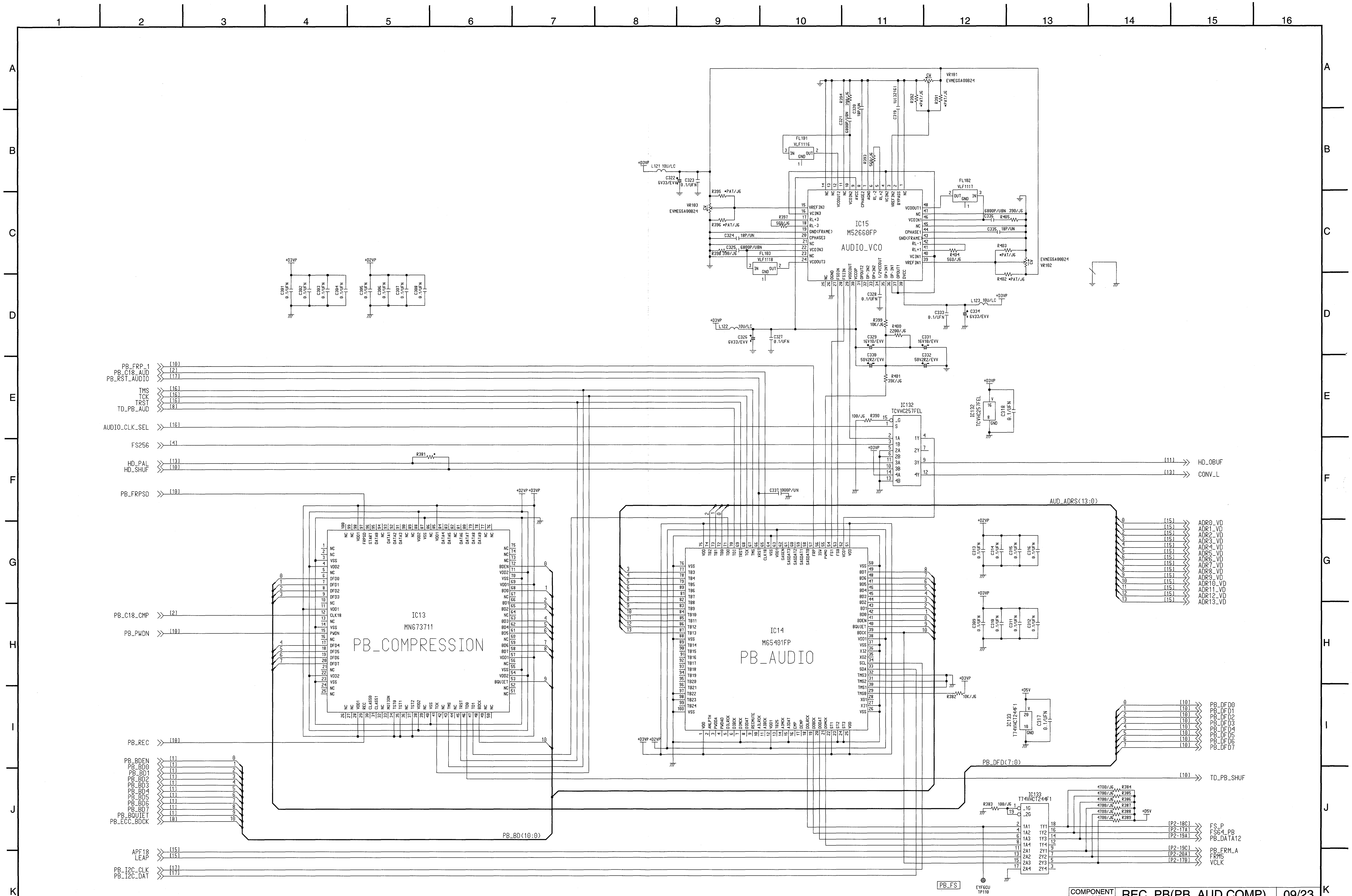
COMPONENT NAME	REC_PB(PB_PCI)	07/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(7/23)	SCM66	


PB_I2C_DAT
PB_ECC_SEL_H
CONCEALON_L
OUTERON_L
INNERON_L
PB_I2C_CLK
PB_RST_ECC
PB_TSR
PB_C18_ECC
PB_TM(11:0)
PB_TMDT0
PB_TMDT1
PB_TMDT2
PB_TMDT3
PB_TMDT4
PB_TMDT5
PB_TMDT6
PB_TMDT7
PB_TMRW
PB_TMBNK
PB_TMAW
PB_TMSTB
SBSTP
DEDP0
DEDP1
DEDP2
DEDP3
PB_FRP_1
TRST
TMS
TD_PB_ECC
TCK
TR_SLOW_H
SBC_SLOW_H
LINH_3V
SV_REV_H
SBC_REV_H
PB_HID
RST_DFF_L
FLUSH_3V
IC130
TC7S66FTE85L
+D3VPE
C282 0.1/UFN
R364 22K/J6
C292 1000P/UN
P_BD(10:0)
DEDP(4:0)
R365 0/J6
R366 0/J6
R367 0/J6
R368 0/J6
R369 0/J6
R374 27K/J6
R373 27K/J6
R372 27K/J6
R370 10K/J6
R371 10K/J6
IC11
L7A1433
PB_ECC
IC32
*PAT
[EPM7032QC-3]
AUDIO_MUTE
(VSI2196)
IC131
T74VHC08FTP1
R361 0/J6
R363 1000/J6
R362 0/J6
IC148
[sheet14]
T74VHC74FTP1
C293 1000P/UN
FEND
SBE
TP114 EYF6CU
TP108 EYF6CU
+D5V
C290 *PAT/UFN
C291 *PAT/UFN
PB_TMFR
PB_TMDEN
PB_TMBEN
PB_ECC_BDEN
PB_ECC_BD0
PB_ECC_BD1
PB_ECC_BD2
PB_ECC_BD3
PB_ECC_BD4
PB_ECC_BD5
PB_ECC_BD6
PB_ECC_BD7
PB_ECC_BQUIET
PB_ECC_BDCK
MUTE_CH2
MUTE_CH1
SBE
TD_PB_AUD
ECC_FEND
PB_EMAD(8:0)
PB_EMDT(15:0)
IC12
MB81V4260S7T
ECC_SLOW_H
ECC_REV_H
C281 0.1/UFN
C283 0.1/UFN
C284 0.1/UFN
C285 0.1/UFN
C286 0.1/UFN
C287 0.1/UFN
C288 0.1/UFN
C289 0.1/UFN

*PAT=PATTERN ONLY

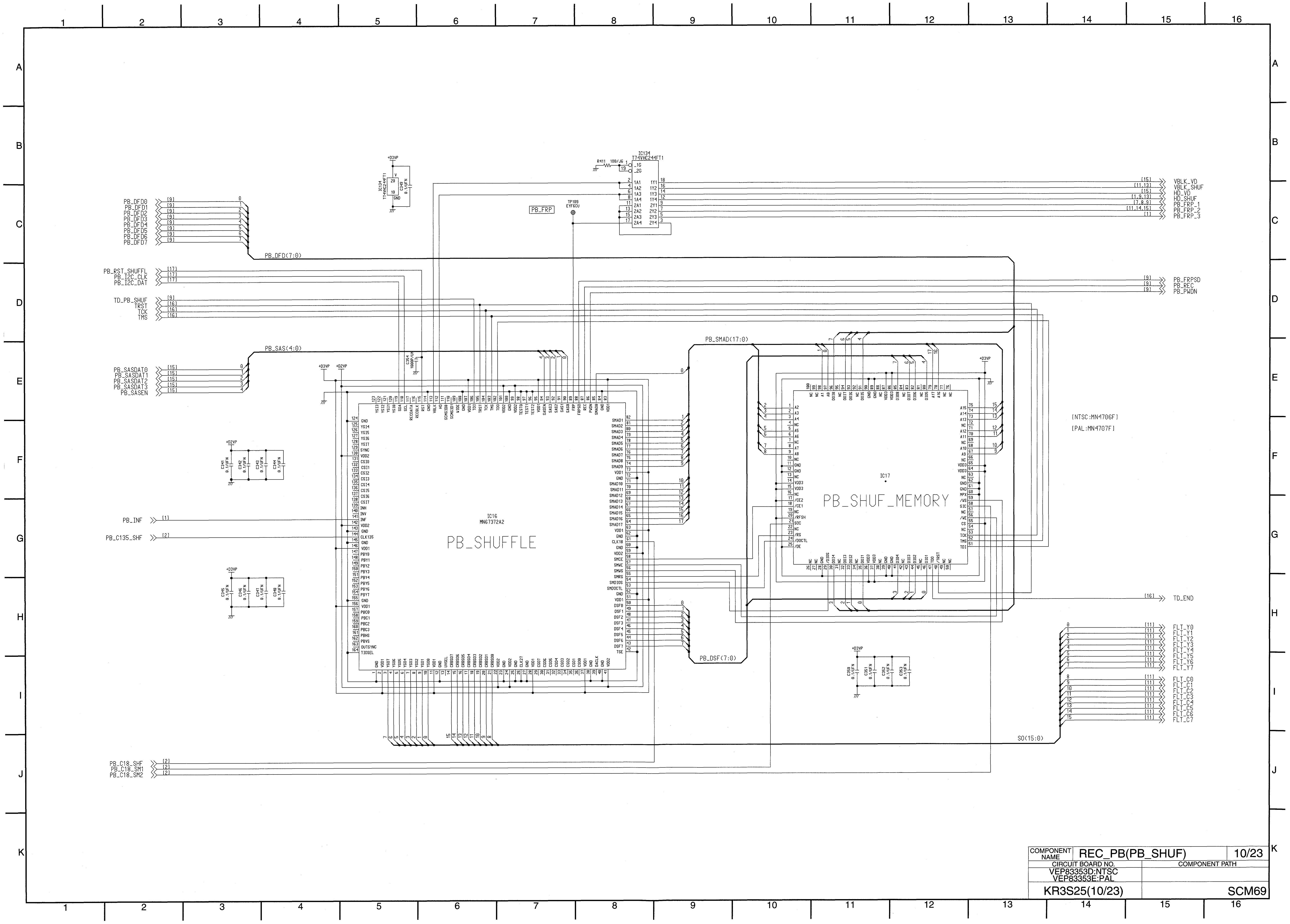
Ref No.3000 Series.

COMPONENT NAME	REC_PB(PB_ECC)	08/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(8/23)	SCM67	

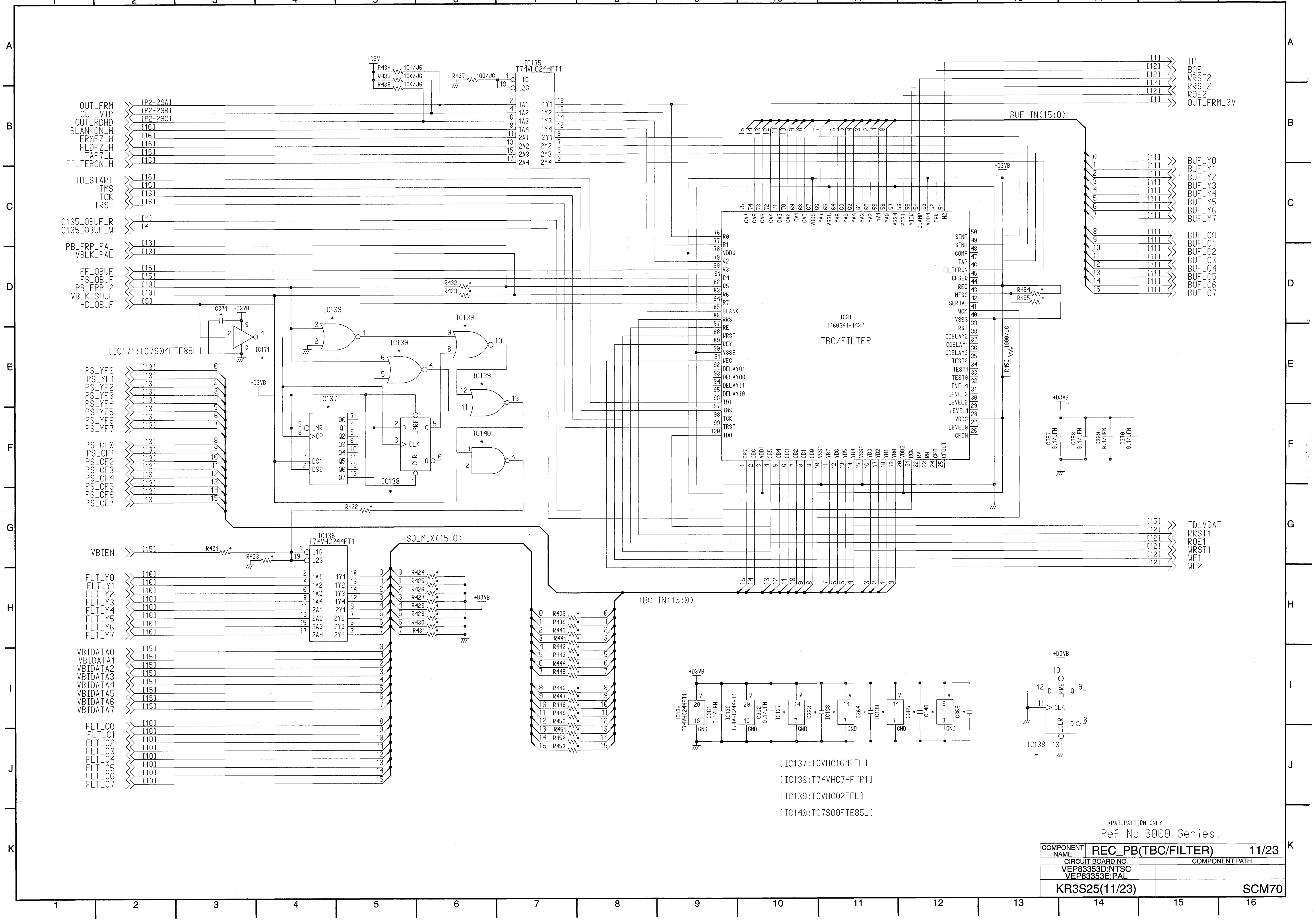


IC15
M52660FP
AUDIO_VCO
IC13
MN673711
PB_COMPRESSION
IC14
M65401FP
PB_AUDIO
IC132
TC7WHC257FEL
IC133
TC74VHCT244FT
FL101
VLF1116
FL102
VLF1117
FL103
VLF1118
VR101
VR102
VR103
EVMEGSA00B24
L121 10U/LC
L122 10U/LC
L123 10U/LC
+D3VP
+D2VP
+D5V
PB_FRP_1
PB_C18_AUD
PB_RST_AUDIO
TMS
TCK
TRST
TD_PB_AUD
AUDIO_CLK_SEL
FS256
HD_PAL
HD_SHUF
PB_FRPSD
PB_C18_CMP
PB_PWDN
PB_REC
PB_BDEN
PB_BD0
PB_BD1
PB_BD2
PB_BD3
PB_BD4
PB_BD5
PB_BD6
PB_BD7
PB_BQUIET
PB_ECC_BDCK
APF18
LEAP
PB_I2C_CLK
PB_I2C_DAT
PB_BD(10:0)
AUD_ADRS(13:0)
PB_DFD(7:0)
HD_OBUF
CONV_L
ADR0_VD
ADR1_VD
ADR2_VD
ADR3_VD
ADR4_VD
ADR5_VD
ADR6_VD
ADR7_VD
ADR8_VD
ADR9_VD
ADR10_VD
ADR11_VD
ADR12_VD
ADR13_VD
PB_DFD0
PB_DFD1
PB_DFD2
PB_DFD3
PB_DFD4
PB_DFD5
PB_DFD6
PB_DFD7
TD_PB_SHUF
FS_P
FS64_PB
PB_DATA12
PB_FRM_A
FRM5
VCLK
PB_FS
EYF6CU
TP110
R381
R382 10K/J6
R383 100/J6
R390 100/J6
R399 10K/J6
R400 2200/J6
R401 39K/J6
C337 1000P/UN
C317 0.1/UFN
C318 0.1/UFN

COMPONENT NAME	REC_PB(PB_AUD,COMP)	09/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(9/23)	SCM68	


PB_DFD0
PB_DFD1
PB_DFD2
PB_DFD3
PB_DFD4
PB_DFD5
PB_DFD6
PB_DFD7
PB_DFD(7:0)
PB_RST_SHUFFL
PB_I2C_CLK
PB_I2C_DAT
TD_PB_SHUF
TRST
TCK
TMS
PB_SAS(4:0)
PB_SASDAT0
PB_SASDAT1
PB_SASDAT2
PB_SASDAT3
PB_SASEN
PB_INF
PB_C135_SHF
PB_C18_SHF
PB_C18_SM1
PB_C18_SM2
IC134
T74VHC244FT1
R411 100/J6
PB_FRP
TP109
IC16
MN67372A2
PB_SHUFFLE
PB_SMAD(17:0)
PB_DSF(7:0)
IC17
PB_SHUF_MEMORY
[NTSC:MN4706F]
[PAL:MN4707F]
+D3VP
+D2VP
[15] VBLK_VD
[11,13] VBLK_SHUF
[15] HD_VD
[1,9,13] HD_SHUF
[7,8,9] PB_FRP_1
[11,14,15] PB_FRP_2
[1] PB_FRP_3
[9] PB_FRPSD
[9] PB_REC
[9] PB_PWDN
[16] TD_END
[11] FLT_Y0
[11] FLT_Y1
[11] FLT_Y2
[11] FLT_Y3
[11] FLT_Y4
[11] FLT_Y5
[11] FLT_Y6
[11] FLT_Y7
[11] FLT_C0
[11] FLT_C1
[11] FLT_C2
[11] FLT_C3
[11] FLT_C4
[11] FLT_C5
[11] FLT_C6
[11] FLT_C7
SO(15:0)

COMPONENT NAME	REC_PB(PB_SHUF)	10/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(10/23)	SCM69	


OUT_FRM [P2-29A]
OUT_VIP [P2-29B]
OUT_RDHD [P2-29C]
BLANKON_H [16]
FRMFZ_H [16]
FLDFZ_H [16]
TAP7_L [16]
FILTERON_H [16]
TD_START [16]
TMS [16]
TCK [16]
TRST [16]
C135_OBUF_R [4]
C135_OBUF_W [4]
PB_FRP_PAL [13]
VBLK_PAL [13]
FF_OBUF [15]
FS_OBUF [15]
PB_FRP_2 [10]
VBLK_SHUF [10]
HD_OBUF [9]
[IC171:TC7S04FTE85L]
PS_YF0
PS_YF1
PS_YF2
PS_YF3
PS_YF4
PS_YF5
PS_YF6
PS_YF7
PS_CF0
PS_CF1
PS_CF2
PS_CF3
PS_CF4
PS_CF5
PS_CF6
PS_CF7
VBIEN [15]
FLT_Y0
FLT_Y1
FLT_Y2
FLT_Y3
FLT_Y4
FLT_Y5
FLT_Y6
FLT_Y7
VBIDATA0
VBIDATA1
VBIDATA2
VBIDATA3
VBIDATA4
VBIDATA5
VBIDATA6
VBIDATA7
FLT_C0
FLT_C1
FLT_C2
FLT_C3
FLT_C4
FLT_C5
FLT_C6
FLT_C7
IC135
T74VHC244FT1
R434 10K/J6
R435 10K/J6
R436 10K/J6
R437 100/J6
+D5V
IC136
T74VHC244FT1
SO_MIX(15:0)
TBC_IN(15:0)
BUF_IN(15:0)
IC31
T160G41-1437
TBC/FILTER
IC137
IC138
IC139
IC140
IC171
C371
+D3VB
R421
R422
R423
R424–R431
R432
R433
R438–R453
R454
R455
R456 1000/J6
C361 0.1/UFN
C362 0.1/UFN
C363
C364
C365
C366
C367 0.1/UFN
C368 0.1/UFN
C369 0.1/UFN
C370 0.1/UFN
IP [1]
BOE [12]
WRST2 [12]
RRST2 [12]
ROE2 [12]
OUT_FRM_3V [1]
BUF_Y0
BUF_Y1
BUF_Y2
BUF_Y3
BUF_Y4
BUF_Y5
BUF_Y6
BUF_Y7
BUF_C0
BUF_C1
BUF_C2
BUF_C3
BUF_C4
BUF_C5
BUF_C6
BUF_C7
TD_VDAT [15]
RRST1 [12]
ROE1 [12]
WRST1 [12]
WE1 [12]
WE2 [12]

[IC137:TCVHC164FEL]

[IC138:T74VHC74FTP1]

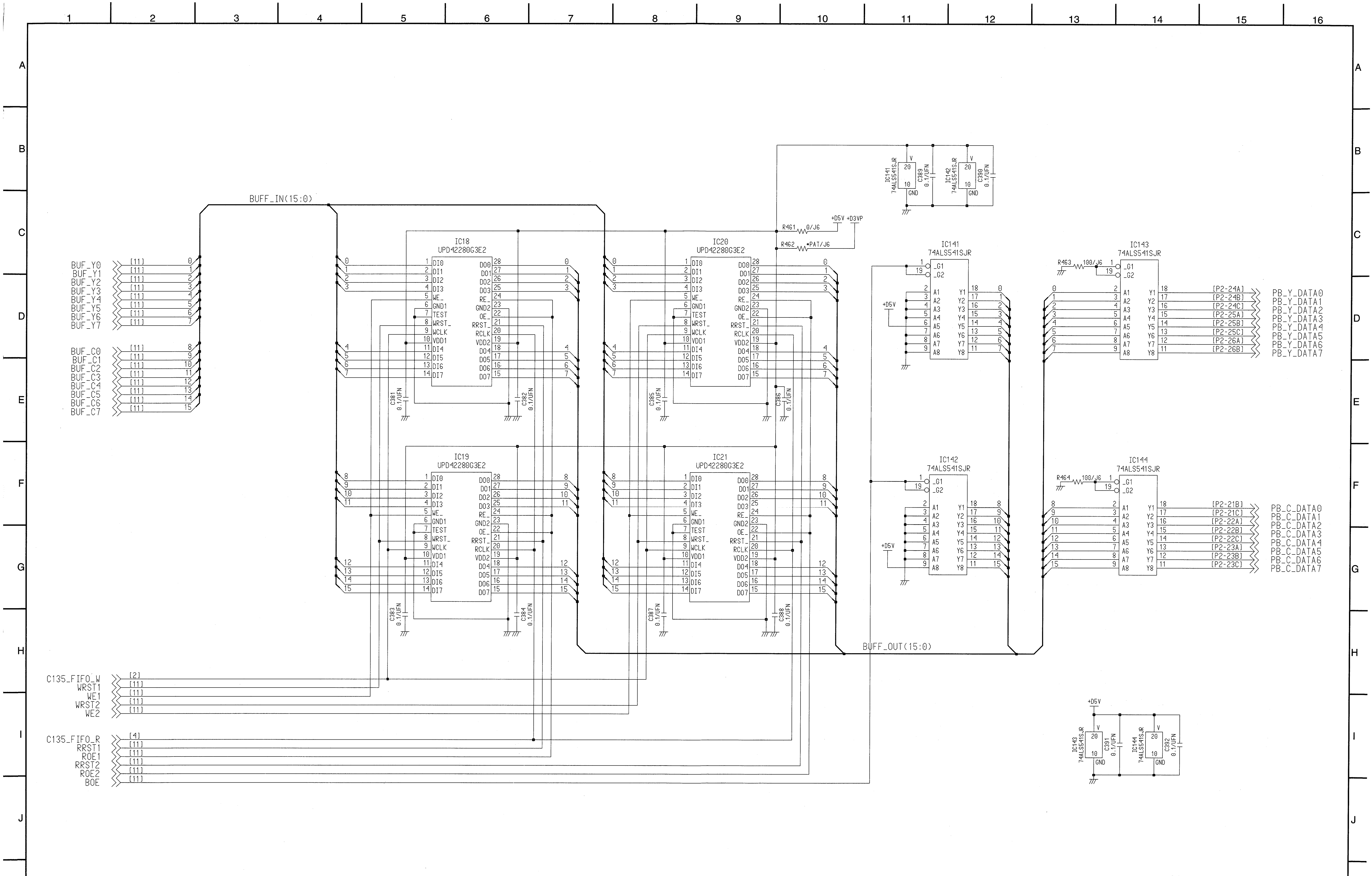
[IC139:TCVHC02FEL]

[IC140:TC7S00FTE85L]

*PAT=PATTERN ONLY

Ref No.3000 Series.

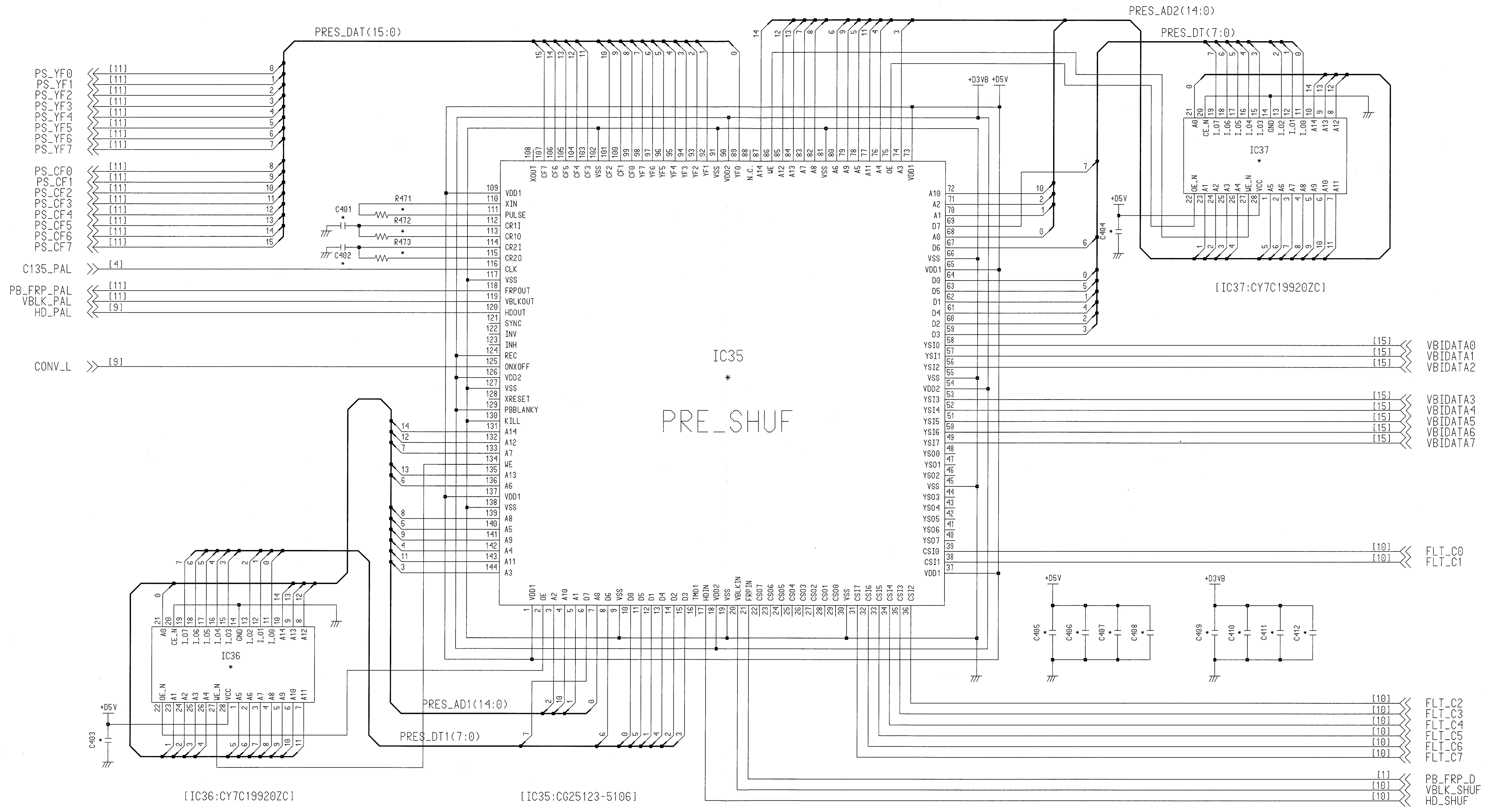
COMPONENT NAME	REC_PB(TBC/FILTER)	11/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(11/23)		SCM70


BUFF_IN(15:0)
BUF_Y0
BUF_Y1
BUF_Y2
BUF_Y3
BUF_Y4
BUF_Y5
BUF_Y6
BUF_Y7
BUF_C0
BUF_C1
BUF_C2
BUF_C3
BUF_C4
BUF_C5
BUF_C6
BUF_C7
[11]
IC18
UPD42280G3E2
IC19
UPD42280G3E2
IC20
UPD42280G3E2
IC21
UPD42280G3E2
DI0
DI1
DI2
DI3
WE_
GND1
TEST
WRST_
WCLK
VDD1
DI4
DI5
DI6
DI7
DO0
DO1
DO2
DO3
RE_
GND2
OE_
RRST_
RCLK
VDD2
DO4
DO5
DO6
DO7
C381 0.1/UFN
C382 0.1/UFN
C383 0.1/UFN
C384 0.1/UFN
C385 0.1/UFN
C386 0.1/UFN
C387 0.1/UFN
C388 0.1/UFN
R461 0/J6
R462 *PAT/J6
+D5V
+D3VP
IC141 74ALS541SJR
IC142 74ALS541SJR
IC143 74ALS541SJR
IC144 74ALS541SJR
C389 0.1/UFN
C390 0.1/UFN
C391 0.1/UFN
C392 0.1/UFN
V
GND
R463 100/J6
R464 100/J6
_G1
_G2
A1
A2
A3
A4
A5
A6
A7
A8
Y1
Y2
Y3
Y4
Y5
Y6
Y7
Y8
[P2-24A]
[P2-24B]
[P2-24C]
[P2-25A]
[P2-25B]
[P2-25C]
[P2-26A]
[P2-26B]
PB_Y_DATA0
PB_Y_DATA1
PB_Y_DATA2
PB_Y_DATA3
PB_Y_DATA4
PB_Y_DATA5
PB_Y_DATA6
PB_Y_DATA7
[P2-21B]
[P2-21C]
[P2-22A]
[P2-22B]
[P2-22C]
[P2-23A]
[P2-23B]
[P2-23C]
PB_C_DATA0
PB_C_DATA1
PB_C_DATA2
PB_C_DATA3
PB_C_DATA4
PB_C_DATA5
PB_C_DATA6
PB_C_DATA7
BUFF_OUT(15:0)
C135_FIFO_W
WRST1
WE1
WRST2
WE2
C135_FIFO_R
RRST1
ROE1
RRST2
ROE2
BOE
[2]
[4]
A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

*PAT=PATTERN ONLY

Ref No.3000 Series.

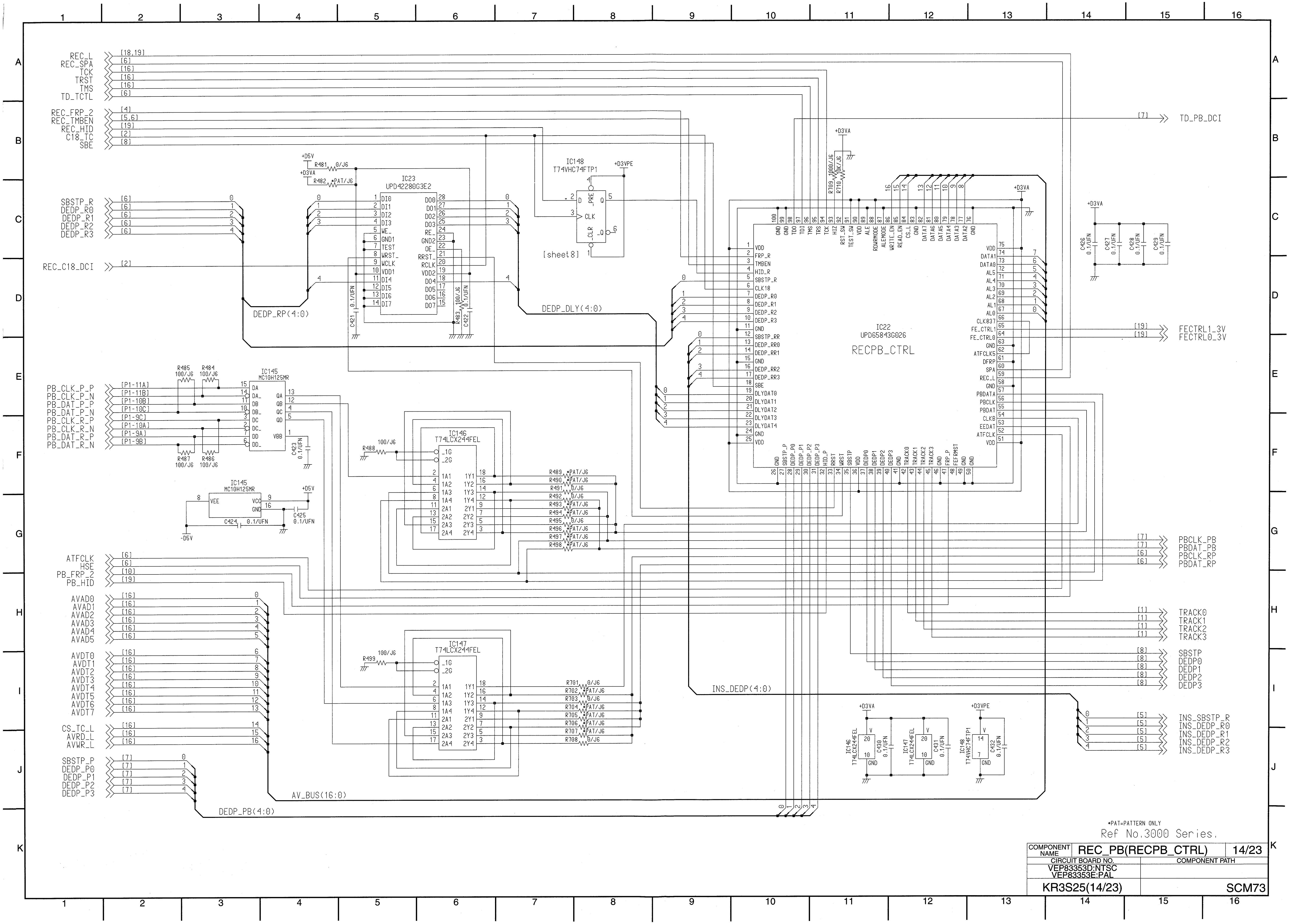
COMPONENT NAME	REC_PB(OUT_BUFF 2)	12/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(12/23)		SCM71


PRES_DAT(15:0)
PRES_AD2(14:0)
PRES_DT(7:0)
PS_YF0
PS_YF1
PS_YF2
PS_YF3
PS_YF4
PS_YF5
PS_YF6
PS_YF7
PS_CF0
PS_CF1
PS_CF2
PS_CF3
PS_CF4
PS_CF5
PS_CF6
PS_CF7
C135_PAL
PB_FRP_PAL
VBLK_PAL
HD_PAL
CONV_L
C401
C402
C403
C404
R471
R472
R473
+D3VB
+D5V
IC35
PRE_SHUF
IC36
IC37
[IC37:CY7C19920ZC]
[IC36:CY7C19920ZC]
[IC35:CG25123-5106]
PRES_AD1(14:0)
PRES_DT1(7:0)
VBIDATA0
VBIDATA1
VBIDATA2
VBIDATA3
VBIDATA4
VBIDATA5
VBIDATA6
VBIDATA7
FLT_C0
FLT_C1
FLT_C2
FLT_C3
FLT_C4
FLT_C5
FLT_C6
FLT_C7
PB_FRP_D
VBLK_SHUF
HD_SHUF
C405
C406
C407
C408
C409
C410
C411
C412
VDD1
XIN
PULSE
CR1I
CR1O
CR2I
CR2O
CLK
VSS
FRPOUT
VBLKOUT
HDOUT
SYNC
INV
INH
REC
ONXOFF
VDD2
XRESET
PBBLANKY
KILL
XOUT
CF7
CF6
CF5
CF4
CF3
CF2
CF1
CF0
YF7
YF6
YF5
YF4
YF3
YF2
YF1
YF0
N.C.
WE
OE
YSI0
YSI1
YSI2
YSI3
YSI4
YSI5
YSI6
YSI7
YSO0
YSO1
YSO2
YSO3
YSO4
YSO5
YSO6
YSO7
CSI0
CSI1
CSO7
CSO6
CSO5
CSO4
CSO3
CSO2
CSO1
CSO0
CSI7
CSI6
CSI5
CSI4
CSI3
CSI2
TMD1
MODN
VBLKIN
FRPIN
CE_N
OE_N
WE_N
GND
VCC

*PAT=PATTERN ONLY

Ref No.3000 Series.

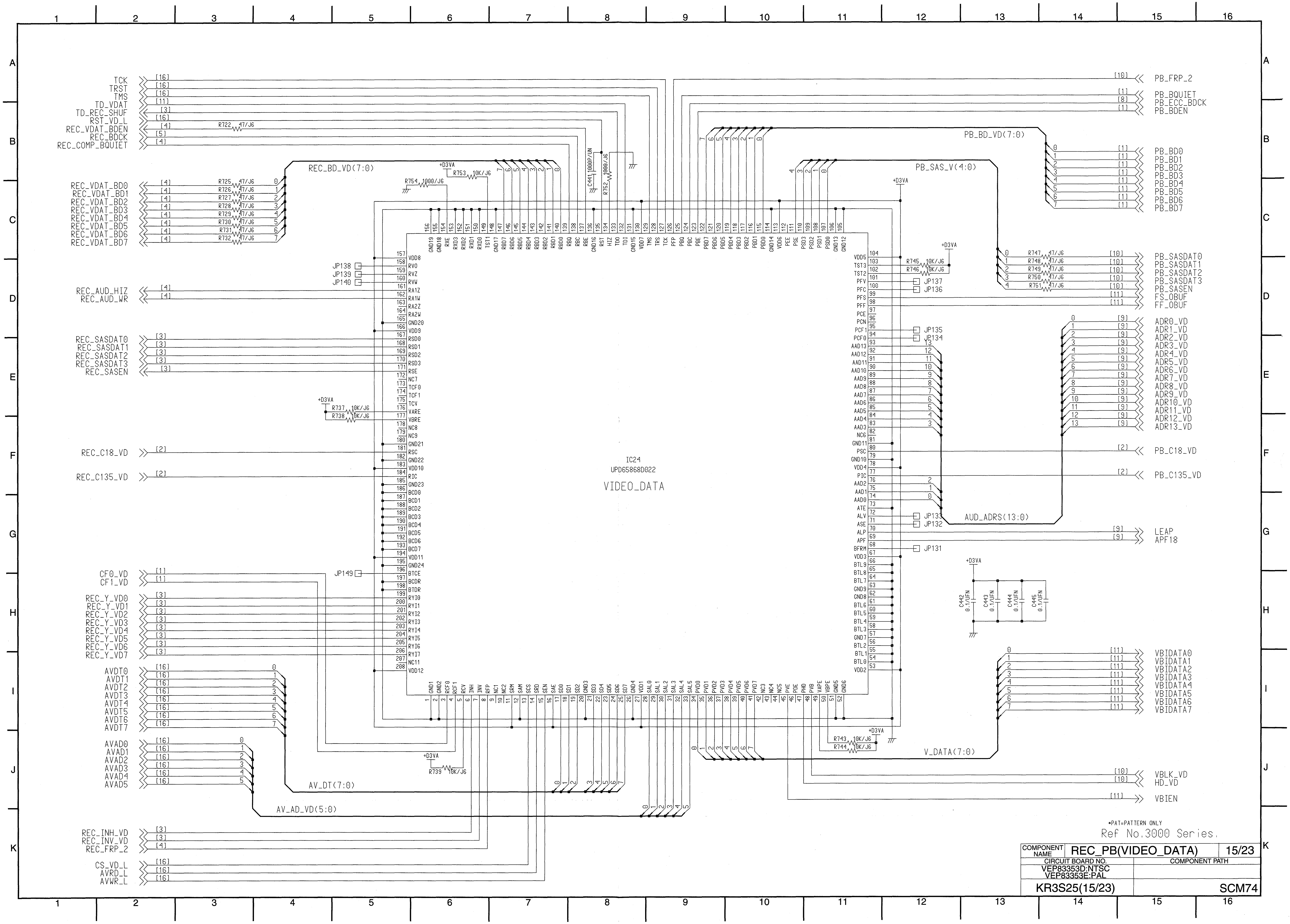
COMPONENT NAME	REC_PB(PAL)	13/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(13/23)		SCM72


REC_L [18,19]
REC_SPA [6]
TCK [16]
TRST [16]
TMS [16]
TD_TCTL [6]
REC_FRP_2 [4]
REC_TMBEN [5,6]
REC_HID [19]
C18_TC [2]
SBE [8]
SBSTP_R [6]
DEDP_R0 [6]
DEDP_R1 [6]
DEDP_R2 [6]
DEDP_R3 [6]
REC_C18_DCI [2]
PB_CLK_P_P [P1-11A]
PB_CLK_P_N [P1-11B]
PB_DAT_P_P [P1-10B]
PB_DAT_P_N [P1-10C]
PB_CLK_R_P [P1-9C]
PB_CLK_R_N [P1-10A]
PB_DAT_R_P [P1-9A]
PB_DAT_R_N [P1-9B]
ATFCLK [6]
HSE [6]
PB_FRP_2 [10]
PB_HID [19]
AVAD0 [16]
AVAD1 [16]
AVAD2 [16]
AVAD3 [16]
AVAD4 [16]
AVAD5 [16]
AVDT0 [16]
AVDT1 [16]
AVDT2 [16]
AVDT3 [16]
AVDT4 [16]
AVDT5 [16]
AVDT6 [16]
AVDT7 [16]
CS_TC_L [16]
AVRD_L [16]
AVWR_L [16]
SBSTP_P [7]
DEDP_P0 [7]
DEDP_P1 [7]
DEDP_P2 [7]
DEDP_P3 [7]
DEDP_RP(4:0)
DEDP_DLY(4:0)
AV_BUS(16:0)
DEDP_PB(4:0)
INS_DEDP(4:0)
IC23
UPD42280G3E2
+D5V
+D3VA
R481 0/J6
R482 *PAT/J6
C421 0.1/UFN
R483 100/J6
C422 0.1/UFN
IC148
T74VHC74FTP1
+D3VPE
[sheet8]
IC22
UPD65843G026
RECPB_CTRL
R709 1000/J6
R710 10K/J6
IC145
MC10H125MR
R485 100/J6
R484 100/J6
R487 100/J6
R486 100/J6
C423 0.1/UFN
C424 0.1/UFN
C425 0.1/UFN
-D5V
IC146
T74LCX244FEL
R488 100/J6
R489 *PAT/J6
R490 *PAT/J6
R491 0/J6
R492 0/J6
R493 *PAT/J6
R494 *PAT/J6
R495 0/J6
R496 *PAT/J6
R497 *PAT/J6
R498 *PAT/J6
IC147
T74LCX244FEL
R499 100/J6
R701 0/J6
R702 *PAT/J6
R703 0/J6
R704 *PAT/J6
R705 *PAT/J6
R706 *PAT/J6
R707 *PAT/J6
R708 0/J6
C426 0.1/UFN
C427 0.1/UFN
C428 0.1/UFN
C429 0.1/UFN
C430 0.1/UFN
C431 0.1/UFN
C432 0.1/UFN
[7] TD_PB_DCI
[19] FECTRL1_3V
[19] FECTRL0_3V
[7] PBCLK_PB
[7] PBDAT_PB
[6] PBCLK_RP
[6] PBDAT_RP
[1] TRACK0
[1] TRACK1
[1] TRACK2
[1] TRACK3
[8] SBSTP
[8] DEDP0
[8] DEDP1
[8] DEDP2
[8] DEDP3
[5] INS_SBSTP_R
[5] INS_DEDP_R0
[5] INS_DEDP_R1
[5] INS_DEDP_R2
[5] INS_DEDP_R3

*PAT=PATTERN ONLY

Ref No.3000 Series.

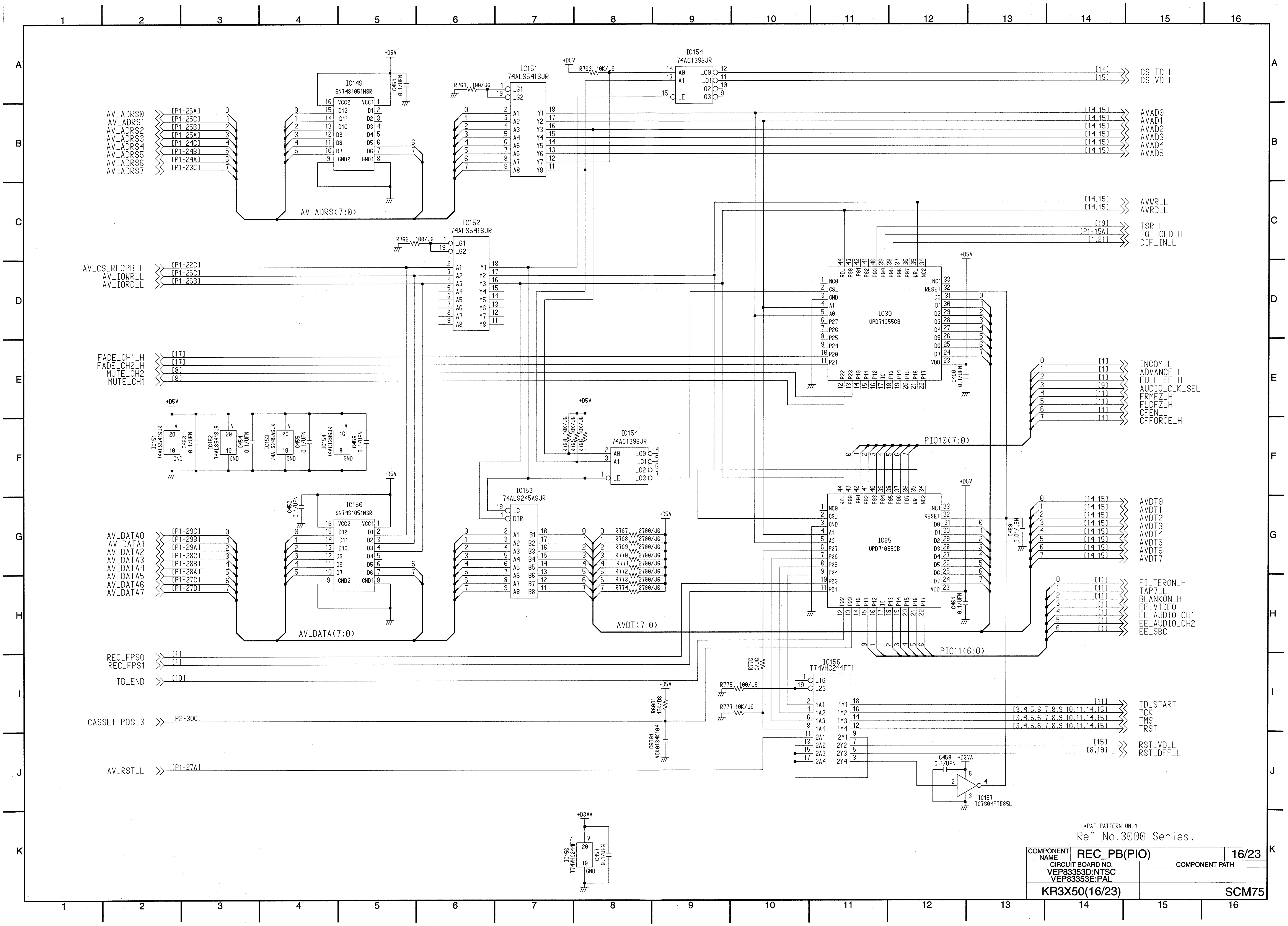
COMPONENT NAME	REC_PB(RECPB_CTRL)	14/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(14/23)		SCM73


TCK
TRST
TMS
TD_VDAT
TD_REC_SHUF
RST_VD_L
REC_VDAT_BDEN
REC_BDCK
REC_COMP_BQUIET
R722 47/J6
REC_VDAT_BD0
REC_VDAT_BD1
REC_VDAT_BD2
REC_VDAT_BD3
REC_VDAT_BD4
REC_VDAT_BD5
REC_VDAT_BD6
REC_VDAT_BD7
R725 47/J6
R726 47/J6
R727 47/J6
R728 47/J6
R729 47/J6
R730 47/J6
R731 47/J6
R732 47/J6
REC_BD_VD(7:0)
REC_AUD_HIZ
REC_AUD_WR
REC_SASDAT0
REC_SASDAT1
REC_SASDAT2
REC_SASDAT3
REC_SASEN
+D3VA
R737 10K/J6
R738 10K/J6
REC_C18_VD
REC_C135_VD
CF0_VD
CF1_VD
JP149
REC_Y_VD0
REC_Y_VD1
REC_Y_VD2
REC_Y_VD3
REC_Y_VD4
REC_Y_VD5
REC_Y_VD6
REC_Y_VD7
AVDT0
AVDT1
AVDT2
AVDT3
AVDT4
AVDT5
AVDT6
AVDT7
AVAD0
AVAD1
AVAD2
AVAD3
AVAD4
AVAD5
AV_DT(7:0)
AV_AD_VD(5:0)
R739 10K/J6
REC_INH_VD
REC_INV_VD
REC_FRP_2
CS_VD_L
AVRD_L
AVWR_L
JP138
JP139
JP140
R753 10K/J6
R754 1000/J6
C441 1000P/UN
R752 1000/J6
IC24
UPD65868D022
VIDEO_DATA
PB_FRP_2
PB_BQUIET
PB_ECC_BDCK
PB_BDEN
PB_BD_VD(7:0)
PB_BD0
PB_BD1
PB_BD2
PB_BD3
PB_BD4
PB_BD5
PB_BD6
PB_BD7
PB_SAS_V(4:0)
R745 10K/J6
R746 10K/J6
JP137
JP136
R747 47/J6
R748 47/J6
R749 47/J6
R750 47/J6
R751 47/J6
PB_SASDAT0
PB_SASDAT1
PB_SASDAT2
PB_SASDAT3
PB_SASEN
FS_OBUF
FF_OBUF
JP135
JP134
ADR0_VD
ADR1_VD
ADR2_VD
ADR3_VD
ADR4_VD
ADR5_VD
ADR6_VD
ADR7_VD
ADR8_VD
ADR9_VD
ADR10_VD
ADR11_VD
ADR12_VD
ADR13_VD
PB_C18_VD
PB_C135_VD
AUD_ADRS(13:0)
JP133
JP132
JP131
LEAP
APF18
C442 0.1/UFN
C443 0.1/UFN
C444 0.1/UFN
C445 0.1/UFN
VBIDATA0
VBIDATA1
VBIDATA2
VBIDATA3
VBIDATA4
VBIDATA5
VBIDATA6
VBIDATA7
V_DATA(7:0)
R743 10K/J6
R744 10K/J6
VBLK_VD
HD_VD
VBIEN

*PAT=PATTERN ONLY

Ref No.3000 Series.

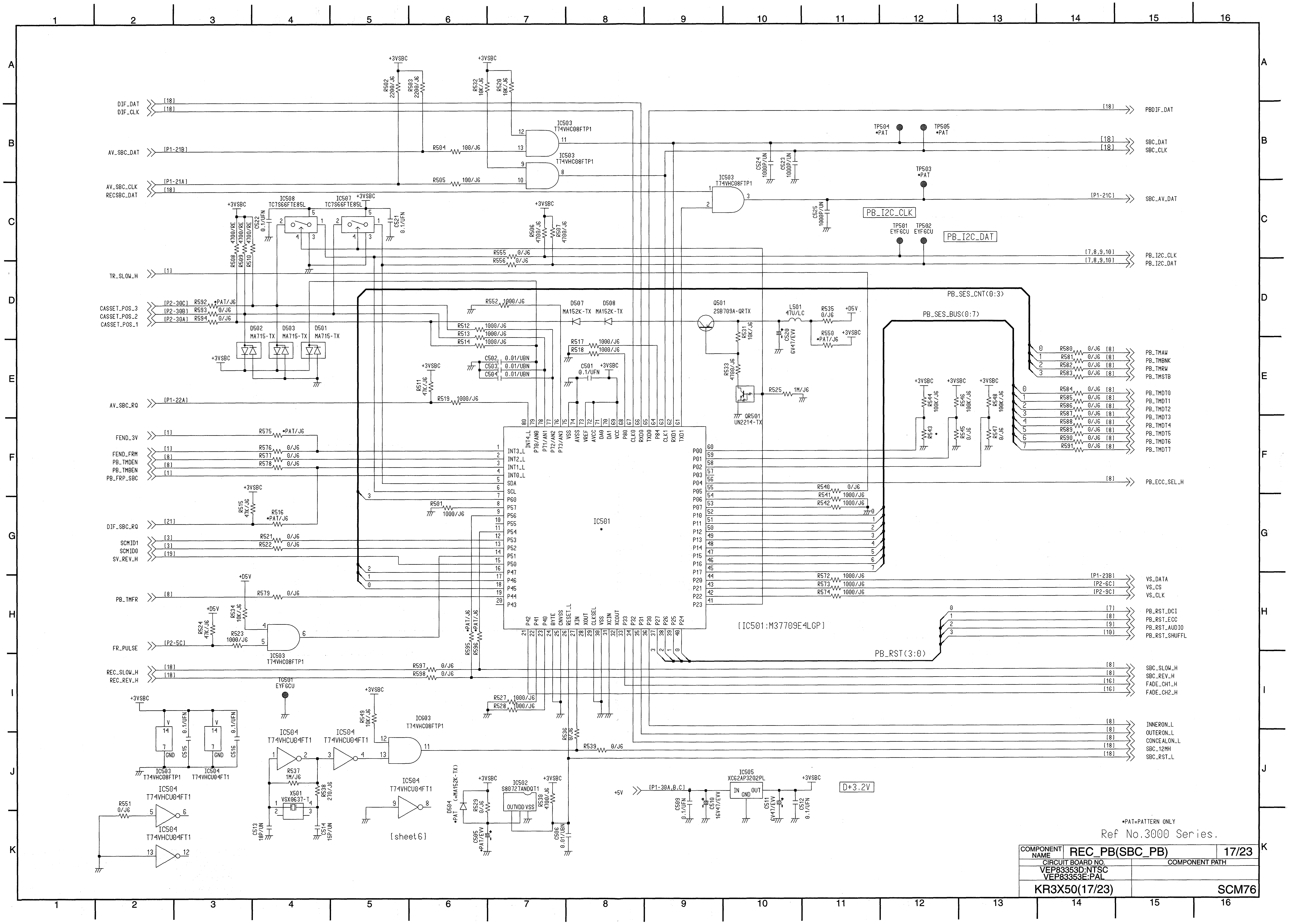
COMPONENT NAME	REC_PB(VIDEO_DATA)	15/23
CIRCUIT BOARD NO. VEP83353D:NTSC VEP83353E:PAL	COMPONENT PATH	
KR3S25(15/23)	SCM74	


IC149
SN74S1051NSR
IC150
SN74S1051NSR
IC151
74ALS541SJR
IC152
74ALS541SJR
IC153
74ALS245ASJR
IC154
74AC139SJR
IC30
UPD71055GB
IC25
UPD71055GB
IC156
T74VHC244FT1
IC157
TC7S04FTE85L
AV_ADRS0
AV_ADRS1
AV_ADRS2
AV_ADRS3
AV_ADRS4
AV_ADRS5
AV_ADRS6
AV_ADRS7
AV_ADRS(7:0)
AV_CS_RECPB_L
AV_IOWR_L
AV_IORD_L
FADE_CH1_H
FADE_CH2_H
MUTE_CH2
MUTE_CH1
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_DATA(7:0)
AVDT(7:0)
REC_FPS0
REC_FPS1
TD_END
CASSET_POS_3
AV_RST_L
CS_TC_L
CS_VD_L
AVAD0
AVAD1
AVAD2
AVAD3
AVAD4
AVAD5
AVWR_L
AVRD_L
TSR_L
EQ_HOLD_H
DIF_IN_L
INCOM_L
ADVANCE_L
FULL_EE_H
AUDIO_CLK_SEL
FRMFZ_H
FLDFZ_H
CFEN_L
CFFORCE_H
PIO10(7:0)
AVDT0
AVDT1
AVDT2
AVDT3
AVDT4
AVDT5
AVDT6
AVDT7
FILTERON_H
TAP7_L
BLANKON_H
EE_VIDEO
EE_AUDIO_CH1
EE_AUDIO_CH2
EE_SBC
PIO11(6:0)
TD_START
TCK
TMS
TRST
RST_VD_L
RST_DFF_L
R761 100/J6
R762 100/J6
R763 10K/J6
R764 10K/J6
R765 10K/J6
R766 10K/J6
R767 2700/J6
R768 2700/J6
R769 2700/J6
R770 2700/J6
R771 2700/J6
R772 2700/J6
R773 2700/J6
R774 2700/J6
R775 100/J6
R776 0/J6
R777 10K/J6
R8001 10K/DS
C8001 VCK0134K104
C451 0.1/UFN
C452 0.1/UFN
C453 0.1/UFN
C454 0.1/UFN
C455 0.1/UFN
C456 0.1/UFN
C457 0.1/UFN
C458 0.1/UFN
C459 0.01/UBN
C460 0.1/UFN
C461 0.1/UFN
+D5V
+D3VA

*PAT=PATTERN ONLY

Ref No.3000 Series.

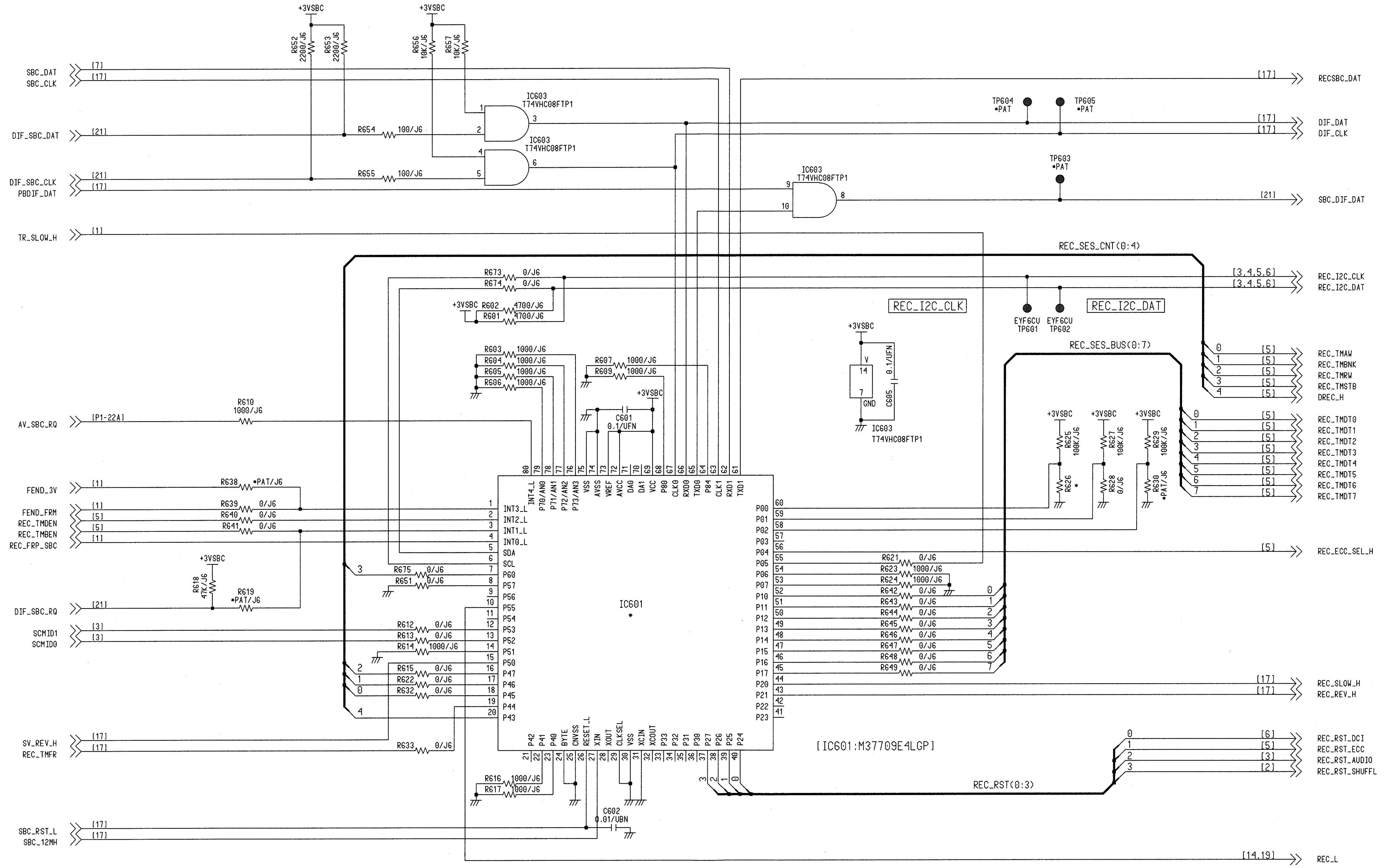
COMPONENT NAME	REC_PB(PIO)	16/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3X50(16/23)		SCM75


DIF_DAT [18]
DIF_CLK [18]
AV_SBC_DAT [P1-21B]
AV_SBC_CLK [P1-21A]
RECSBC_DAT [18]
TR_SLOW_H [1]
CASSET_POS_3 [P2-30C]
CASSET_POS_2 [P2-30B]
CASSET_POS_1 [P2-30A]
AV_SBC_RQ [P1-22A]
FEND_3V [1]
FEND_FRM [1]
PB_TMDEN [8]
PB_TMBEN [8]
PB_FRP_SBC [1]
DIF_SBC_RQ [21]
SCMID1 [3]
SCMID0 [3]
SV_REV_H [19]
PB_TMFR [8]
FR_PULSE [P2-5C]
REC_SLOW_H [18]
REC_REV_H [18]
+3VSBC
+D5V
R502 2200/J6
R503 2200/J6
R532 10K/J6
R520 10K/J6
R504 100/J6
R505 100/J6
IC503 T74VHC08FTP1
IC508 TC7S66FTE85L
IC507 TC7S66FTE85L
C522 0.1/UFN
C521 0.1/UFN
R508 4700/RE
R509 4700/RE
R510 4700/RE
R506 4700/J6
R507 4700/J6
R555 0/J6
R556 0/J6
R592 *PAT/J6
R593 0/J6
R594 0/J6
D502 MA715-TX
D503 MA715-TX
D501 MA715-TX
R552 1000/J6
D507 MA152K-TX
D508 MA152K-TX
R512 1000/J6
R513 1000/J6
R514 1000/J6
R517 1000/J6
R518 1000/J6
C502 0.01/UBN
C503 0.01/UBN
C504 0.01/UBN
C501 0.1/UFN
R511 47K/J6
R519 1000/J6
R575 *PAT/J6
R576 0/J6
R577 0/J6
R578 0/J6
R515 47K/J6
R516 *PAT/J6
R521 0/J6
R522 0/J6
R501 1000/J6
R579 0/J6
R534 10K/J6
R524 47K/J6
R523 1000/J6
R595 *PAT/J6
R596 *PAT/J6
R597 0/J6
R598 0/J6
TG501 EYF6CU
R527 1000/J6
R528 1000/J6
R536 0/J6
R539 0/J6
IC501
[IC501:M37709E4LGP]
INT4_L P70/AN0 P71/AN1 P72/AN2 P73/AN3 VSS AVSS VREF AVCC DA0 DA1 VCC P80 CLK0 RXD0 TXD0 P84 CLK1 RXD1 TXD1
INT3_L INT2_L INT1_L INT0_L SDA SCL P60 P57 P56 P55 P54 P53 P52 P51 P50 P47 P46 P45 P44 P43
P42 P41 P40 BYTE CNVSS RESET_L XIN XOUT CLKSEL VSS XCIN XCOUT P33 P32 P31 P30 P27 P26 P25 P24
P00 P01 P02 P03 P04 P05 P06 P07 P10 P11 P12 P13 P14 P15 P16 P17 P20 P21 P22 P23
Q501 2SB709A-QRTX
L501 47U/LC
R535 0/J6
R550 *PAT/J6
C520 6V47/EVV
R531 10K/J6
R533 4700/J6
QR501 UN2214-TX
R525 1M/J6
C524 1000P/UN
C523 1000P/UN
C525 1000P/UN
TP504 *PAT
TP505 *PAT
TP503 *PAT
TP501 EYF6CU
TP502 EYF6CU
PB_I2C_CLK
PB_I2C_DAT
PB_SES_CNT(0:3)
PB_SES_BUS(0:7)
PB_RST(3:0)
R544 100K/J6
R546 100K/J6
R548 100K/J6
R543 *
R545 0/J6
R547 0/J6
R540 0/J6
R541 1000/J6
R542 1000/J6
R572 1000/J6
R573 1000/J6
R574 1000/J6
R580 0/J6
R581 0/J6
R582 0/J6
R583 0/J6
R584 0/J6
R585 0/J6
R586 0/J6
R587 0/J6
R588 0/J6
R589 0/J6
R590 0/J6
R591 0/J6
[18] PBDIF_DAT
[18] SBC_DAT
[18] SBC_CLK
[P1-21C] SBC_AV_DAT
[7,8,9,10] PB_I2C_CLK
[7,8,9,10] PB_I2C_DAT
[8] PB_TMAW
[8] PB_TMBNK
[8] PB_TMRW
[8] PB_TMSTB
[8] PB_TMDT0
[8] PB_TMDT1
[8] PB_TMDT2
[8] PB_TMDT3
[8] PB_TMDT4
[8] PB_TMDT5
[8] PB_TMDT6
[8] PB_TMDT7
[8] PB_ECC_SEL_H
[P1-23B] VS_DATA
[P2-6C] VS_CS
[P2-9C] VS_CLK
[7] PB_RST_DCI
[8] PB_RST_ECC
[9] PB_RST_AUDIO
[10] PB_RST_SHUFFL
[8] SBC_SLOW_H
[8] SBC_REV_H
[16] FADE_CH1_H
[16] FADE_CH2_H
[8] INNERON_L
[8] OUTERON_L
[8] CONCEALON_L
[18] SBC_12MH
[18] SBC_RST_L
IC504 T74VHCU04FT1
IC603 T74VHC08FTP1
C515 0.1/UFN
C516 0.1/UFN
R551 0/J6
R537 1M/J6
R538 270/J6
X501 VSX0637-T
C513 18P/UN
C514 15P/UN
R549 10K/J6
[sheet6]
D504 *PAT (=MA152K-TX)
R529 0/J6
C505 *PAT/EVV
IC502 S80727ANDQT1
OUT VDD VSS
R530 4700/J6
C506 0.01/UBN
+5V [P1-30A,B,C]
C509 0.1/UFN
C510 16V47/EVV
IC505 XC62AP3202PL
IN GND OUT
C511 6V47/EVV
C512 0.1/UFN
D+3.2V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

*PAT=PATTERN ONLY

Ref No.3000 Series.

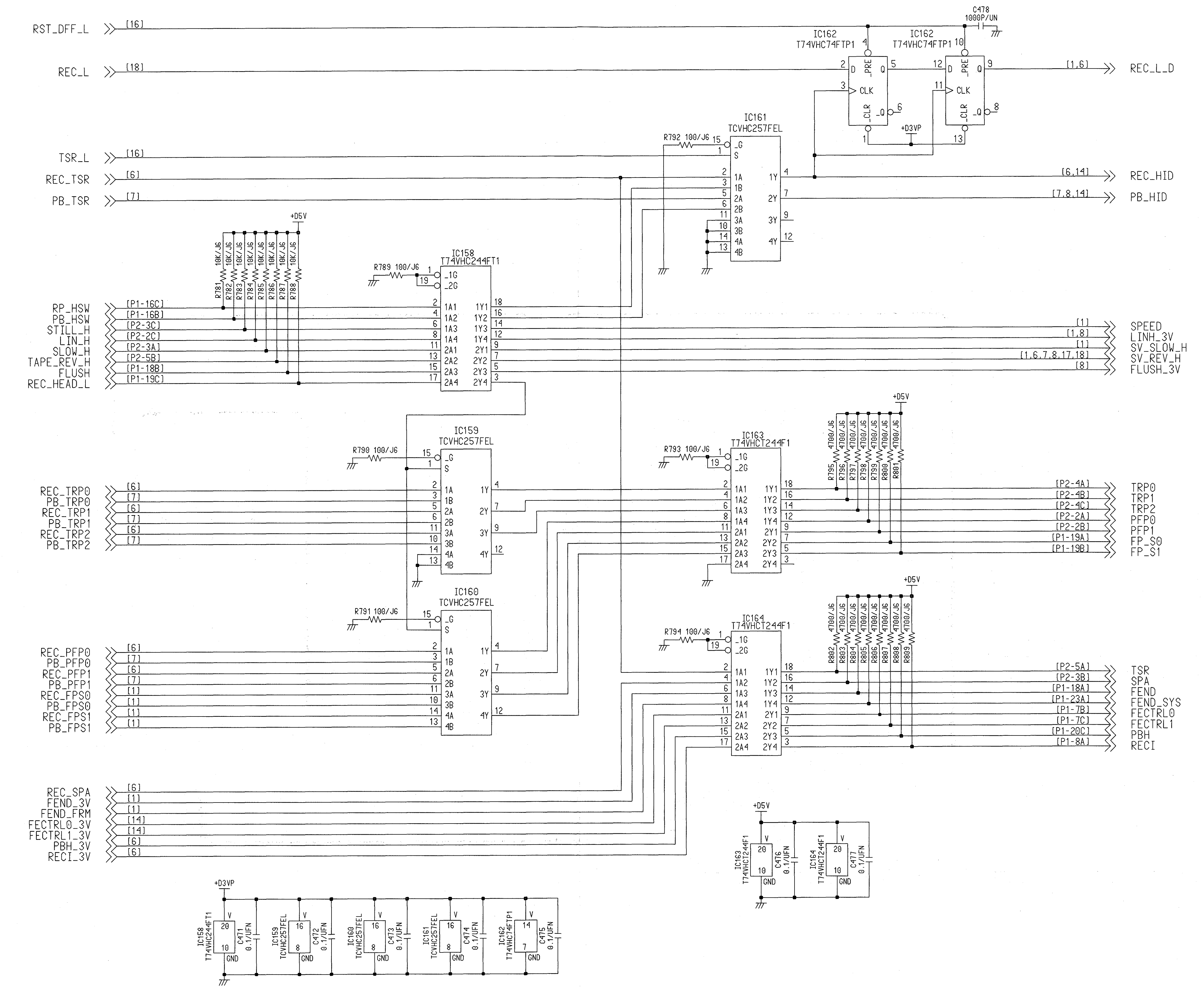
COMPONENT NAME	REC_PB(SBC_PB)	17/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3X50(17/23)	SCM76	


SBC_DAT
SBC_CLK
DIF_SBC_DAT
DIF_SBC_CLK
PBDIF_DAT
TR_SLOW_H
AV_SBC_RQ
FEND_3V
FEND_FRM
REC_TMDEN
REC_TMBEN
REC_FRP_SBC
DIF_SBC_RQ
SCMID1
SCMID0
SV_REV_H
REC_TMFR
SBC_RST_L
SBC_12MH
+3VSBC
R652 2200/J6
R653 2200/J6
R656 10K/J6
R657 10K/J6
R654 100/J6
R655 100/J6
IC603 T74VHC08FTP1
TP604 *PAT
TP605 *PAT
TP603 *PAT
REC_SES_CNT(0:4)
R673 0/J6
R674 0/J6
R602 4700/J6
R601 4700/J6
REC_I2C_CLK
REC_I2C_DAT
EYF6CU TP601
EYF6CU TP602
C605 0.1/UFN
R603 1000/J6
R604 1000/J6
R605 1000/J6
R606 1000/J6
R607 1000/J6
R609 1000/J6
C601 0.1/UFN
R610 1000/J6
REC_SES_BUS(0:7)
R625 100K/J6
R626 *
R627 100K/J6
R628 0/J6
R629 100K/J6
R630 *PAT/J6
R638 *PAT/J6
R639 0/J6
R640 0/J6
R641 0/J6
R618 47K/J6
R619 *PAT/J6
R675 0/J6
R651 0/J6
R612 0/J6
R613 0/J6
R614 1000/J6
R615 0/J6
R622 0/J6
R632 0/J6
R633 0/J6
R616 1000/J6
R617 1000/J6
C602 0.01/UBN
IC601
R621 0/J6
R623 1000/J6
R624 1000/J6
R642 0/J6
R643 0/J6
R644 0/J6
R645 0/J6
R646 0/J6
R647 0/J6
R648 0/J6
R649 0/J6
[IC601:M37709E4LGP]
REC_RST(0:3)
RECSBC_DAT
DIF_DAT
DIF_CLK
SBC_DIF_DAT
REC_I2C_CLK
REC_I2C_DAT
REC_TMAW
REC_TMBNK
REC_TMRW
REC_TMSTB
DREC_H
REC_TMDT0
REC_TMDT1
REC_TMDT2
REC_TMDT3
REC_TMDT4
REC_TMDT5
REC_TMDT6
REC_TMDT7
REC_ECC_SEL_H
REC_SLOW_H
REC_REV_H
REC_RST_DCI
REC_RST_ECC
REC_RST_AUDIO
REC_RST_SHUFFL
REC_L

*PAT=PATTERN ONLY

Ref No.3000 Series.

COMPONENT NAME	REC_PB(SBC_REC)	18/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(18/23)		SCM77

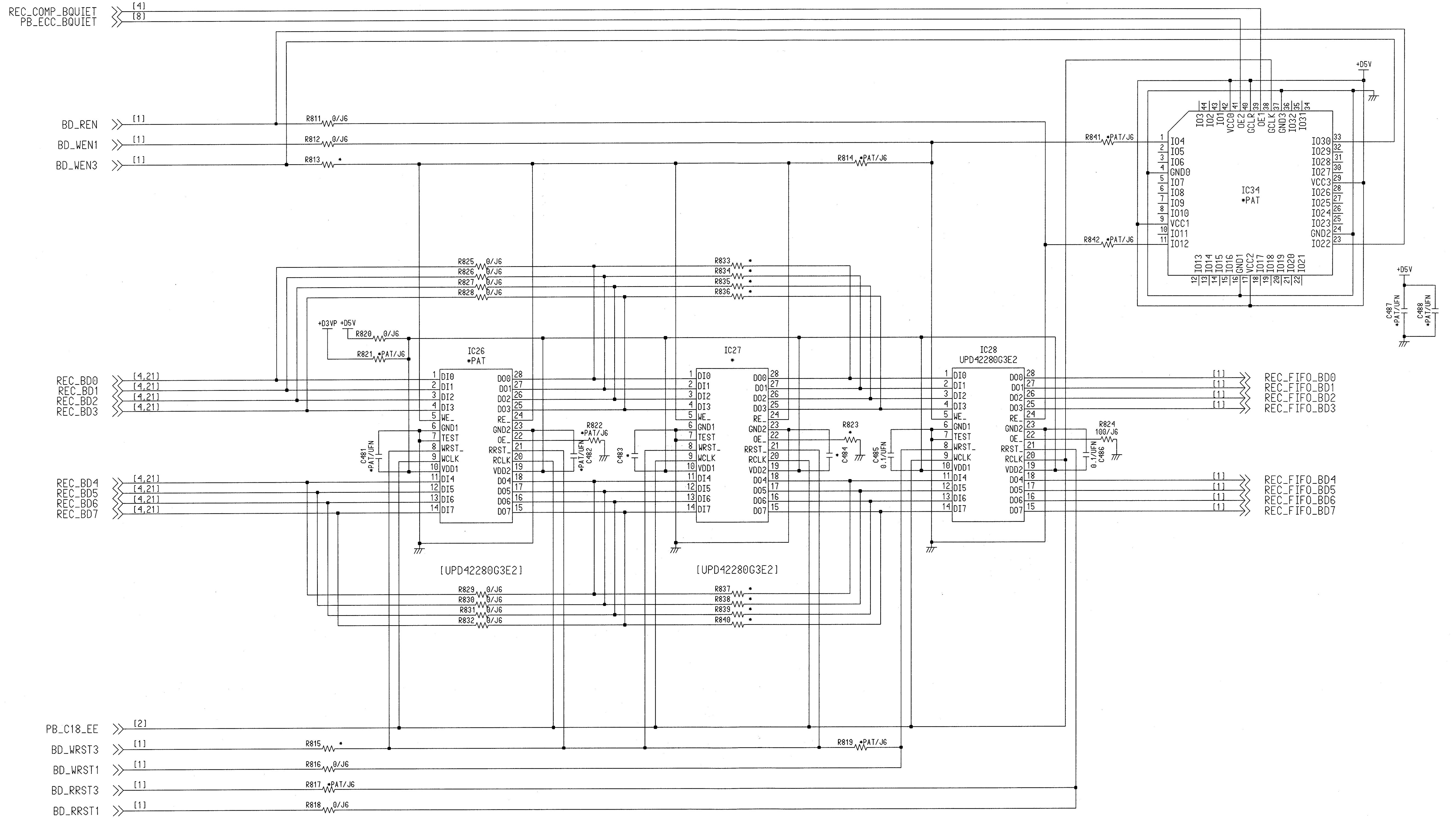


RST_DFF_L [16]
REC_L [18]
TSR_L [16]
REC_TSR [6]
PB_TSR [7]
C478 1000P/UN
IC162 T74VHC74FTP1
IC162 T74VHC74FTP1
D _PRE Q CLK _CLR _Q
+D3VP
REC_L_D [1,6]
IC161 TCVHC257FEL
R792 100/J6
REC_HID [6,14]
PB_HID [7,8,14]
IC158 T74VHC244FT1
R789 100/J6
+D5V
R781 R782 R783 R784 R785 R786 R787 R788 10K/J6
RP_HSW [P1-16C]
PB_HSW [P1-16B]
STILL_H [P2-3C]
LIN_H [P2-2C]
SLOW_H [P2-3A]
TAPE_REV_H [P2-5B]
FLUSH [P1-18B]
REC_HEAD_L [P1-19C]
SPEED [1]
LINH_3V [1,8]
SV_SLOW_H [1]
SV_REV_H [1,6,7,8,17,18]
FLUSH_3V [8]
IC159 TCVHC257FEL
R790 100/J6
REC_TRP0 [6]
PB_TRP0 [7]
REC_TRP1 [6]
PB_TRP1 [7]
REC_TRP2 [6]
PB_TRP2 [7]
IC163 T74VHCT244F1
R793 100/J6
R795 R796 R797 R798 R799 R800 R801 4700/J6
TRP0 [P2-4A]
TRP1 [P2-4B]
TRP2 [P2-4C]
PFP0 [P2-2A]
PFP1 [P2-2B]
FP_S0 [P1-19A]
FP_S1 [P1-19B]
IC160 TCVHC257FEL
R791 100/J6
REC_PFP0 [6]
PB_PFP0 [7]
REC_PFP1 [6]
PB_PFP1 [7]
REC_FPS0 [1]
PB_FPS0 [1]
REC_FPS1 [1]
PB_FPS1 [1]
IC164 T74VHCT244F1
R794 100/J6
R802 R803 R804 R805 R806 R807 R808 R809 4700/J6
TSR [P2-5A]
SPA [P2-3B]
FEND [P1-18A]
FEND_SYS [P1-23A]
FECTRL0 [P1-7B]
FECTRL1 [P1-7C]
PBH [P1-20C]
RECI [P1-8A]
REC_SPA [6]
FEND_3V [1]
FEND_FRM [1]
FECTRL0_3V [14]
FECTRL1_3V [14]
PBH_3V [6]
RECI_3V [6]
IC163 T74VHCT244F1 C476 0.1/UFN
IC164 T74VHCT244F1 C477 0.1/UFN
IC158 T74VHC244FT1 C471 0.1/UFN
IC159 TCVHC257FEL C472 0.1/UFN
IC160 TCVHC257FEL C473 0.1/UFN
IC161 TCVHC257FEL C474 0.1/UFN
IC162 T74VHC74FTP1 C475 0.1/UFN
V GND

*PAT=PATTERN ONLY

Ref No.3000 Series.

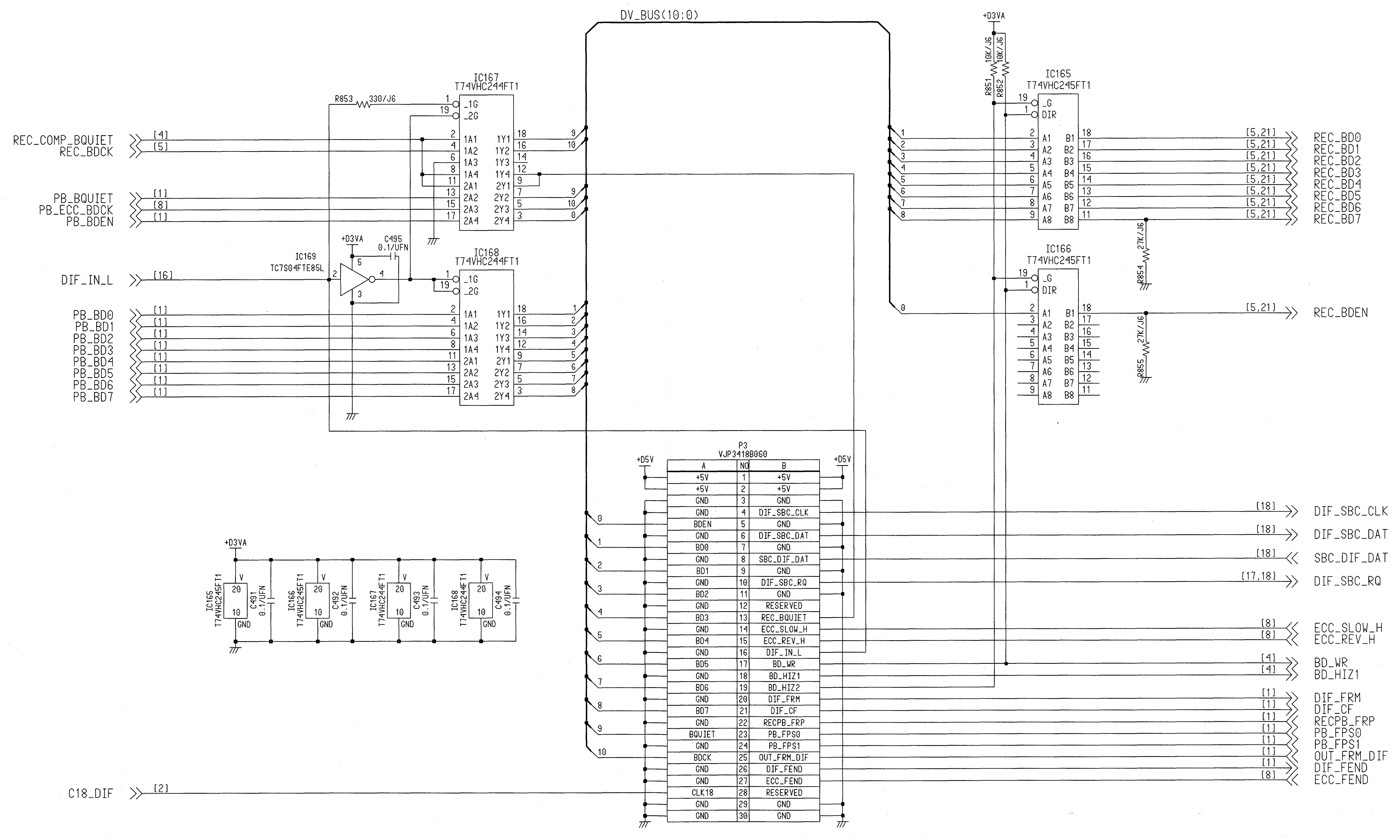
COMPONENT NAME	REC_PB(SERVO_SEPA)	19/23
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(19/23)		SCM78


REC_COMP_BQUIET [4]
PB_ECC_BQUIET [8]
BD_REN [1]
BD_WEN1 [1]
BD_WEN3 [1]
R811 0/J6
R812 0/J6
R813 *
R814 *PAT/J6
R841 *PAT/J6
R842 *PAT/J6
+D5V
IC34
*PAT
IO3 IO2 IO1 VCC0 OE2 GCLR OE1 GCLK GND3 IO32 IO31
IO4 IO5 IO6 GND0 IO7 IO8 IO9 IO10 VCC1 IO11 IO12
IO13 IO14 IO15 IO16 GND1 VCC2 IO17 IO18 IO19 IO20 IO21
IO30 IO29 IO28 IO27 VCC3 IO26 IO25 IO24 IO23 GND2 IO22
C487 *PAT/UFN
C488 *PAT/UFN
R825 0/J6
R826 0/J6
R827 0/J6
R828 0/J6
R833 *
R834 *
R835 *
R836 *
+D3VP +D5V
R820 0/J6
R821 *PAT/J6
IC26
*PAT
IC27
*
IC28
UPD42280G3E2
DI0 DI1 DI2 DI3 WE_ GND1 TEST WRST_ WCLK VDD1 DI4 DI5 DI6 DI7
DO0 DO1 DO2 DO3 RE_ GND2 OE_ RRST_ RCLK VDD2 DO4 DO5 DO6 DO7
REC_BD0 [4,21]
REC_BD1 [4,21]
REC_BD2 [4,21]
REC_BD3 [4,21]
REC_BD4 [4,21]
REC_BD5 [4,21]
REC_BD6 [4,21]
REC_BD7 [4,21]
REC_FIFO_BD0 [1]
REC_FIFO_BD1 [1]
REC_FIFO_BD2 [1]
REC_FIFO_BD3 [1]
REC_FIFO_BD4 [1]
REC_FIFO_BD5 [1]
REC_FIFO_BD6 [1]
REC_FIFO_BD7 [1]
R822 *PAT/J6
R823 *
R824 100/J6
C481 *PAT/UFN
C482 *PAT/UFN
C483 *
C484 *
C485 0.1/UFN
C486 0.1/UFN
[UPD42280G3E2]
[UPD42280G3E2]
R829 0/J6
R830 0/J6
R831 0/J6
R832 0/J6
R837 *
R838 *
R839 *
R840 *
PB_C18_EE [2]
BD_WRST3 [1]
BD_WRST1 [1]
BD_RRST3 [1]
BD_RRST1 [1]
R815 *
R816 0/J6
R817 *PAT/J6
R818 0/J6
R819 *PAT/J6

*PAT=PATTERN ONLY

Ref No.3000 Series.

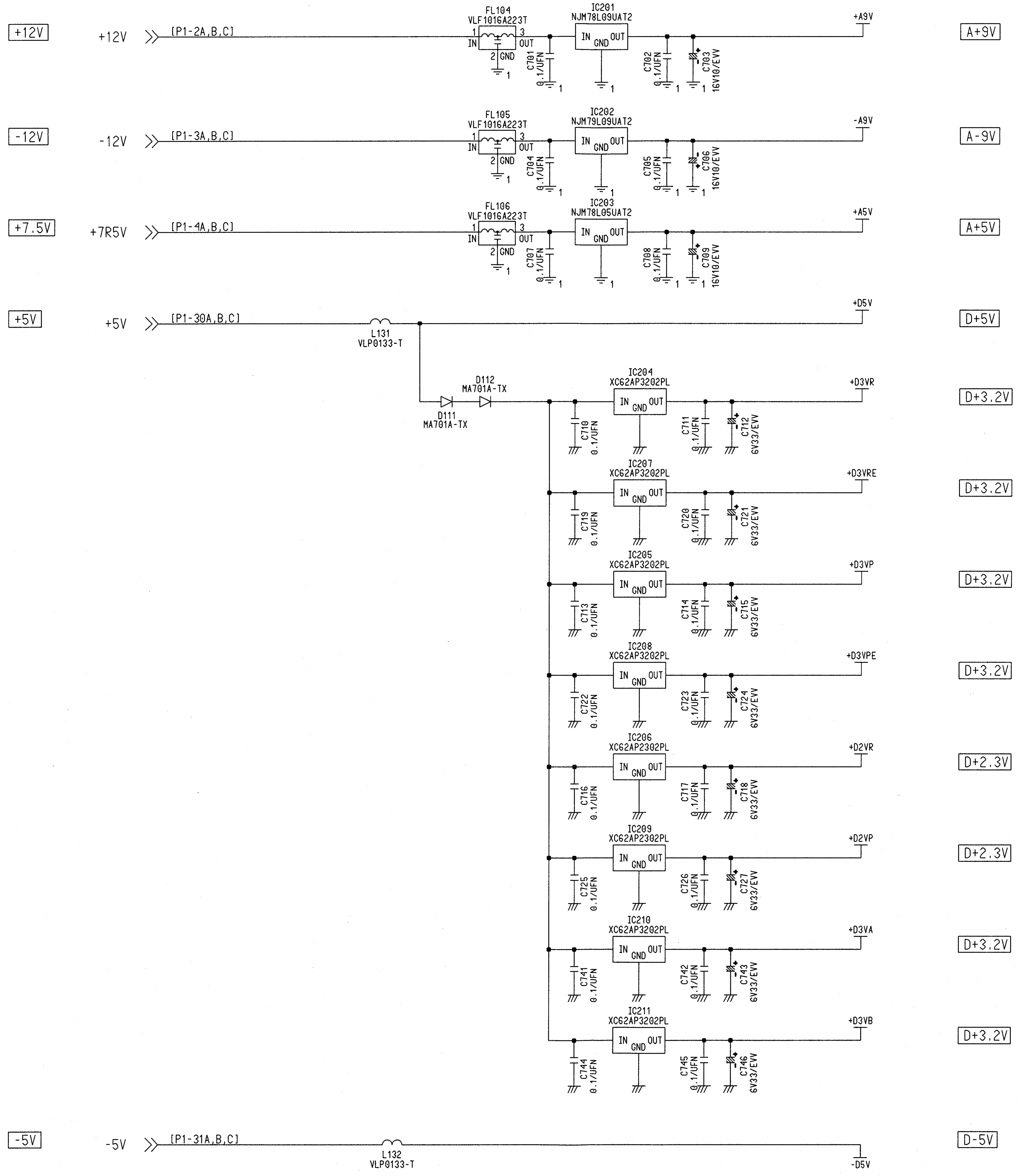
COMPONENT NAME	REC_PB(DVC RETERN)	20/23
CIRCUIT BOARD NO. VEP83353D:NTSC VEP83353E:PAL	COMPONENT PATH	
KR3S25(20/23)		SCM79


DV_BUS(10:0)
IC167
T74VHC244FT1
IC168
T74VHC244FT1
IC169
TC7S04FTE85L
IC165
T74VHC245FT1
IC166
T74VHC245FT1
R853 330/J6
C495 0.1/UFN
+D3VA
R851 10K/J6
R852 10K/J6
R854 27K/J6
R855 27K/J6
REC_COMP_BQUIET [4]
REC_BDCK [5]
PB_BQUIET [1]
PB_ECC_BDCK [8]
PB_BDEN [1]
DIF_IN_L [16]
PB_BD0 [1]
PB_BD1 [1]
PB_BD2 [1]
PB_BD3 [1]
PB_BD4 [1]
PB_BD5 [1]
PB_BD6 [1]
PB_BD7 [1]
C18_DIF [2]
_1G
_2G
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
_G
DIR
A1 A2 A3 A4 A5 A6 A7 A8
B1 B2 B3 B4 B5 B6 B7 B8
[5,21] REC_BD0
[5,21] REC_BD1
[5,21] REC_BD2
[5,21] REC_BD3
[5,21] REC_BD4
[5,21] REC_BD5
[5,21] REC_BD6
[5,21] REC_BD7
[5,21] REC_BDEN
P3
VJP3418B060
+D5V
A NO B
+5V 1 +5V
+5V 2 +5V
GND 3 GND
GND 4 DIF_SBC_CLK
BDEN 5 GND
GND 6 DIF_SBC_DAT
BD0 7 GND
GND 8 SBC_DIF_DAT
BD1 9 GND
GND 10 DIF_SBC_RQ
BD2 11 GND
GND 12 RESERVED
BD3 13 REC_BQUIET
GND 14 ECC_SLOW_H
BD4 15 ECC_REV_H
GND 16 DIF_IN_L
BD5 17 BD_WR
GND 18 BD_HIZ1
BD6 19 BD_HIZ2
GND 20 DIF_FRM
BD7 21 DIF_CF
GND 22 RECPB_FRP
BQUIET 23 PB_FPS0
GND 24 PB_FPS1
BDCK 25 OUT_FRM_DIF
GND 26 DIF_FEND
GND 27 ECC_FEND
CLK18 28 RESERVED
GND 29 GND
GND 30 GND
[18] DIF_SBC_CLK
[18] DIF_SBC_DAT
[18] SBC_DIF_DAT
[17,18] DIF_SBC_RQ
[8] ECC_SLOW_H
[8] ECC_REV_H
[4] BD_WR
[4] BD_HIZ1
[1] DIF_FRM
[1] DIF_CF
[1] RECPB_FRP
[1] PB_FPS0
[1] PB_FPS1
[1] OUT_FRM_DIF
[1] DIF_FEND
[8] ECC_FEND
IC165 T74VHC245FT1 C491 0.1/UFN
IC166 T74VHC245FT1 C492 0.1/UFN
IC167 T74VHC244FT1 C493 0.1/UFN
IC168 T74VHC244FT1 C494 0.1/UFN
V 20 10 GND

*PAT=PATTERN ONLY

Ref No.3000 Series.

COMPONENT NAME	REC_PB(DIF)	21/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(21/23)	SCM80	

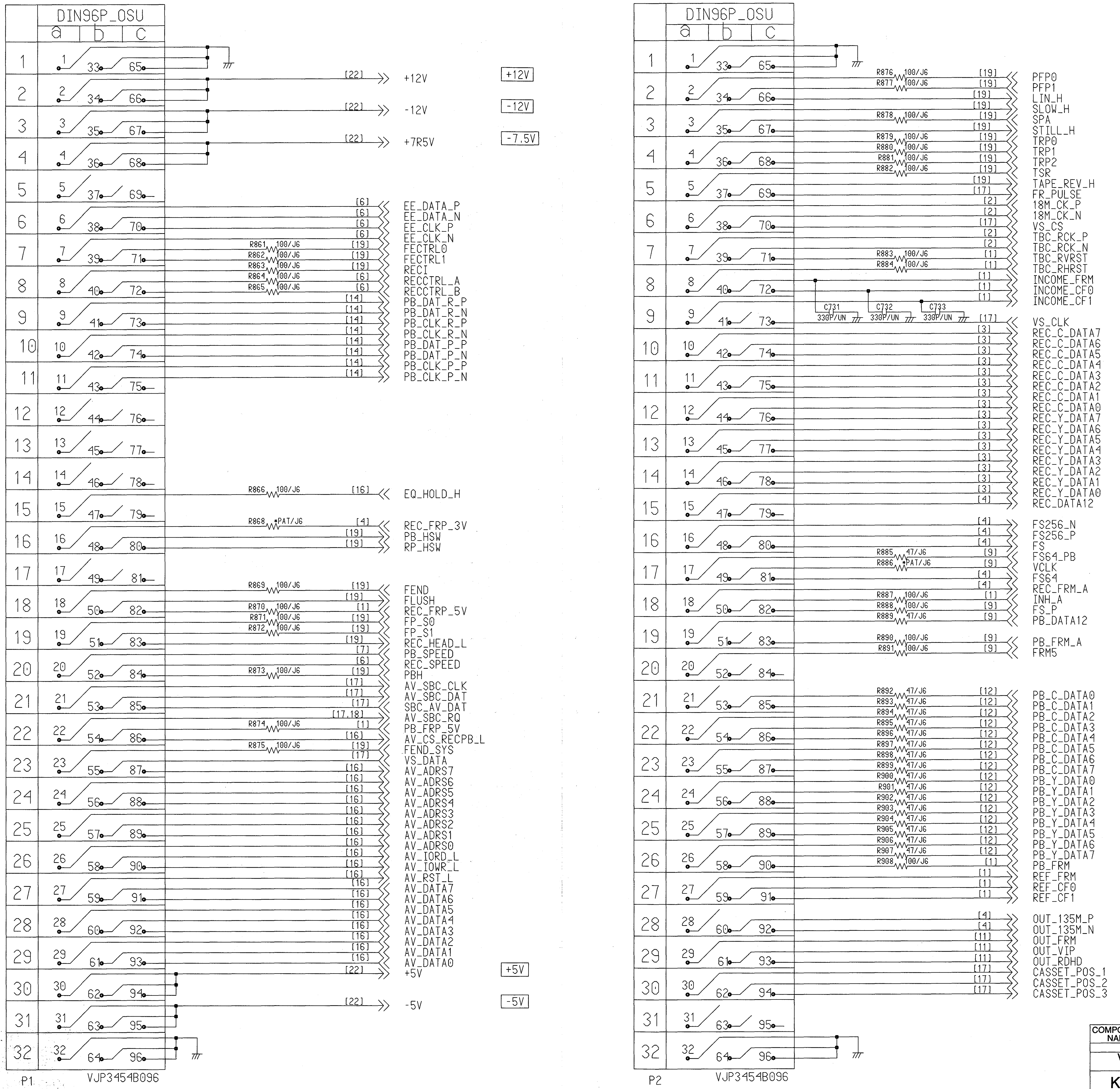


+12V
+12V
[P1-2A,B,C]
FL104
VLF1016A223T
IC201
NJM78L09UAT2
C701 0.1/UFN
C702 0.1/UFN
C703 16V10/EVV
+A9V
A+9V
-12V
-12V
[P1-3A,B,C]
FL105
VLF1016A223T
IC202
NJM79L09UAT2
C704 0.1/UFN
C705 0.1/UFN
C706 16V10/EVV
-A9V
A-9V
+7.5V
+7R5V
[P1-4A,B,C]
FL106
VLF1016A223T
IC203
NJM78L05UAT2
C707 0.1/UFN
C708 0.1/UFN
C709 16V10/EVV
+A5V
A+5V
+5V
+5V
[P1-30A,B,C]
L131
VLP0133-T
+D5V
D+5V
D112
MA701A-TX
D111
MA701A-TX
IC204
XC62AP3202PL
C710 0.1/UFN
C711 0.1/UFN
C712 6V33/EVV
+D3VR
D+3.2V
IC207
XC62AP3202PL
C719 0.1/UFN
C720 0.1/UFN
C721 6V33/EVV
+D3VRE
D+3.2V
IC205
XC62AP3202PL
C713 0.1/UFN
C714 0.1/UFN
C715 6V33/EVV
+D3VP
D+3.2V
IC208
XC62AP3202PL
C722 0.1/UFN
C723 0.1/UFN
C724 6V33/EVV
+D3VPE
D+3.2V
IC206
XC62AP2302PL
C716 0.1/UFN
C717 0.1/UFN
C718 6V33/EVV
+D2VR
D+2.3V
IC209
XC62AP2302PL
C725 0.1/UFN
C726 0.1/UFN
C727 6V33/EVV
+D2VP
D+2.3V
IC210
XC62AP3202PL
C741 0.1/UFN
C742 0.1/UFN
C743 6V33/EVV
+D3VA
D+3.2V
IC211
XC62AP3202PL
C744 0.1/UFN
C745 0.1/UFN
C746 6V33/EVV
+D3VB
D+3.2V
-5V
-5V
[P1-31A,B,C]
L132
VLP0133-T
-D5V
D-5V
IN
OUT
GND

*PAT=PATTERN ONLY

Ref No.3000 Series.

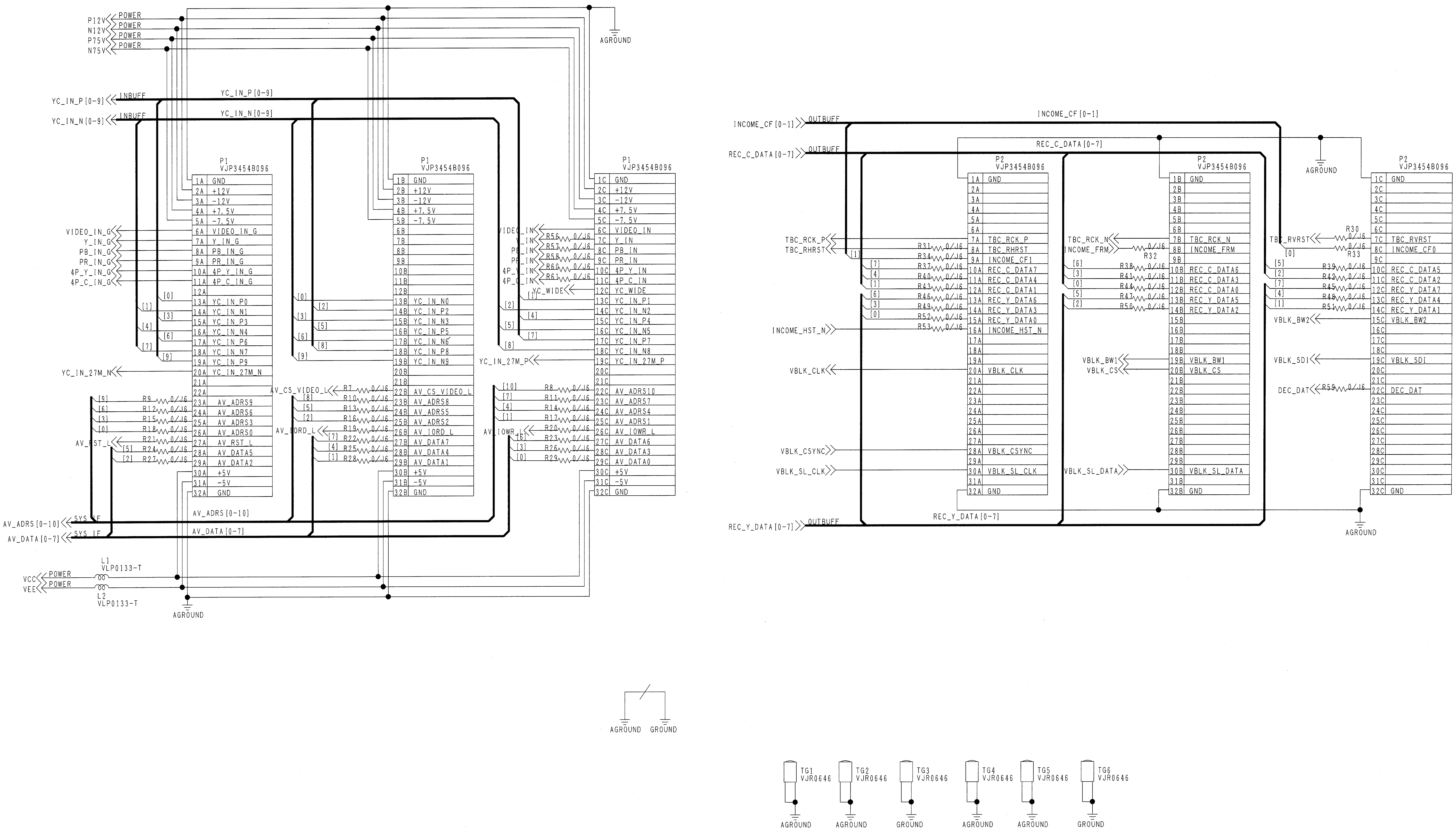
COMPONENT NAME	REC_PB(POWER)	22/23
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83353D:NTSC VEP83353E:PAL		
KR3S25(22/23)	SCM81	


DIN96P_OSU
a b c
+12V
-12V
+7R5V
-7.5V
EE_DATA_P
EE_DATA_N
EE_CLK_P
EE_CLK_N
FECTRL0
FECTRL1
RECI
RECCTRL_A
RECCTRL_B
PB_DAT_R_P
PB_DAT_R_N
PB_CLK_R_P
PB_CLK_R_N
PB_DAT_P_P
PB_DAT_P_N
PB_CLK_P_P
PB_CLK_P_N
EQ_HOLD_H
REC_FRP_3V
PB_HSW
RP_HSW
FEND
FLUSH
REC_FRP_5V
FP_S0
FP_S1
REC_HEAD_L
PB_SPEED
REC_SPEED
PBH
AV_SBC_CLK
AV_SBC_DAT
SBC_AV_DAT
AV_SBC_RQ
PB_FRP_5V
AV_CS_RECPB_L
FEND_SYS
VS_DATA
AV_ADRS7
AV_ADRS6
AV_ADRS5
AV_ADRS4
AV_ADRS3
AV_ADRS2
AV_ADRS1
AV_ADRS0
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_DATA7
AV_DATA6
AV_DATA5
AV_DATA4
AV_DATA3
AV_DATA2
AV_DATA1
AV_DATA0
+5V
-5V
P1
VJP3454B096
PFP0
PFP1
LIN_H
SLOW_H
SPA
STILL_H
TRP0
TRP1
TRP2
TSR
TAPE_REV_H
FR_PULSE
18M_CK_P
18M_CK_N
VS_CS
TBC_RCK_P
TBC_RCK_N
TBC_RVRST
TBC_RHRST
INCOME_FRM
INCOME_CF0
INCOME_CF1
C731 330P/UN
C732 330P/UN
C733 330P/UN
VS_CLK
REC_C_DATA7
REC_C_DATA6
REC_C_DATA5
REC_C_DATA4
REC_C_DATA3
REC_C_DATA2
REC_C_DATA1
REC_C_DATA0
REC_Y_DATA7
REC_Y_DATA6
REC_Y_DATA5
REC_Y_DATA4
REC_Y_DATA3
REC_Y_DATA2
REC_Y_DATA1
REC_Y_DATA0
REC_DATA12
FS256_N
FS256_P
FS
FS64_PB
VCLK
FS64
REC_FRM_A
INH_A
FS_P
PB_DATA12
PB_FRM_A
FRM5
PB_C_DATA0
PB_C_DATA1
PB_C_DATA2
PB_C_DATA3
PB_C_DATA4
PB_C_DATA5
PB_C_DATA6
PB_C_DATA7
PB_Y_DATA0
PB_Y_DATA1
PB_Y_DATA2
PB_Y_DATA3
PB_Y_DATA4
PB_Y_DATA5
PB_Y_DATA6
PB_Y_DATA7
PB_FRM
REF_FRM
REF_CF0
REF_CF1
OUT_135M_P
OUT_135M_N
OUT_FRM
OUT_VIP
OUT_RDHD
CASSET_POS_1
CASSET_POS_2
CASSET_POS_3
P2
VJP3454B096

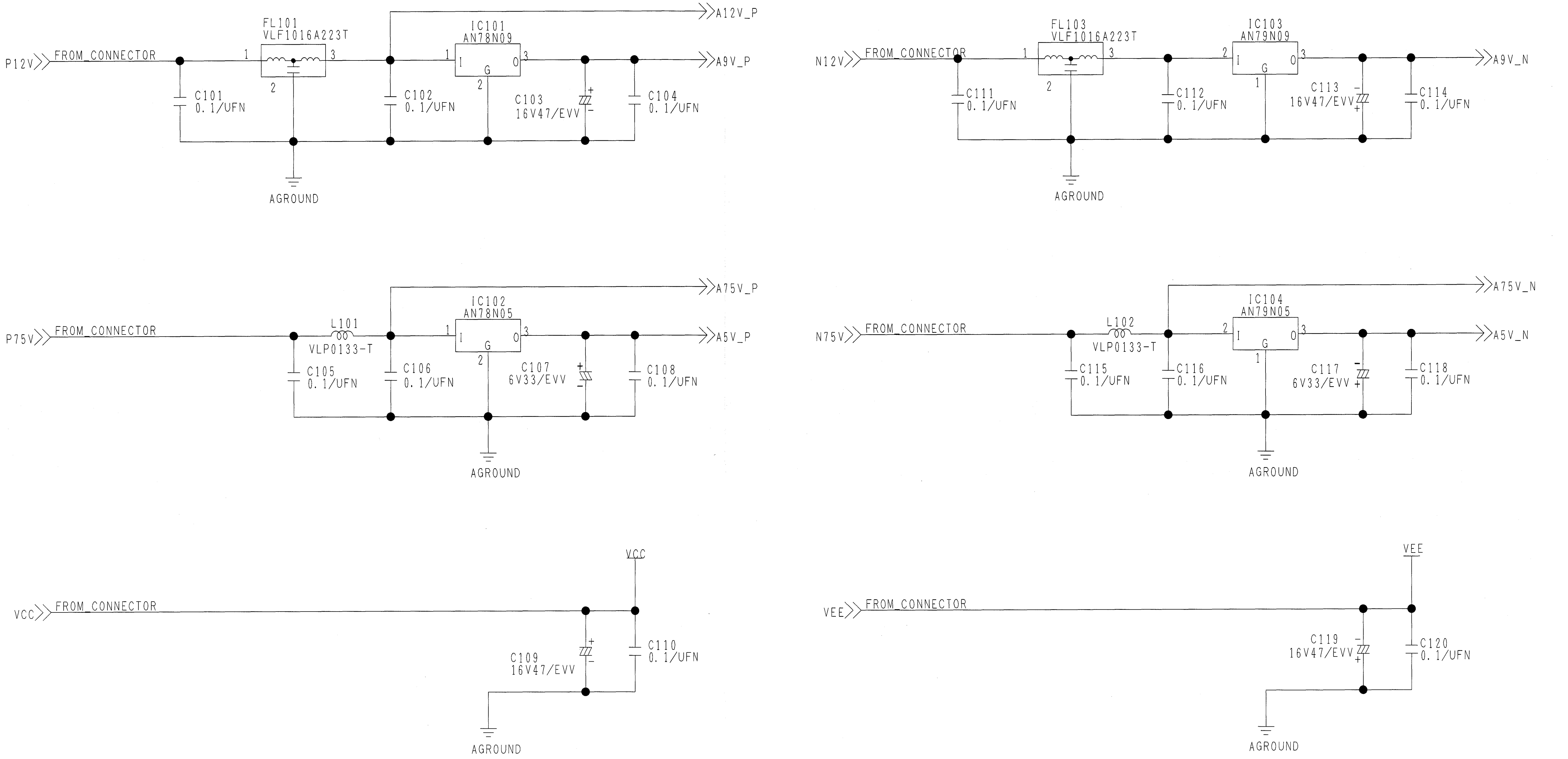
*PAT=PATTERN ONLY

Ref No.3000 Series.

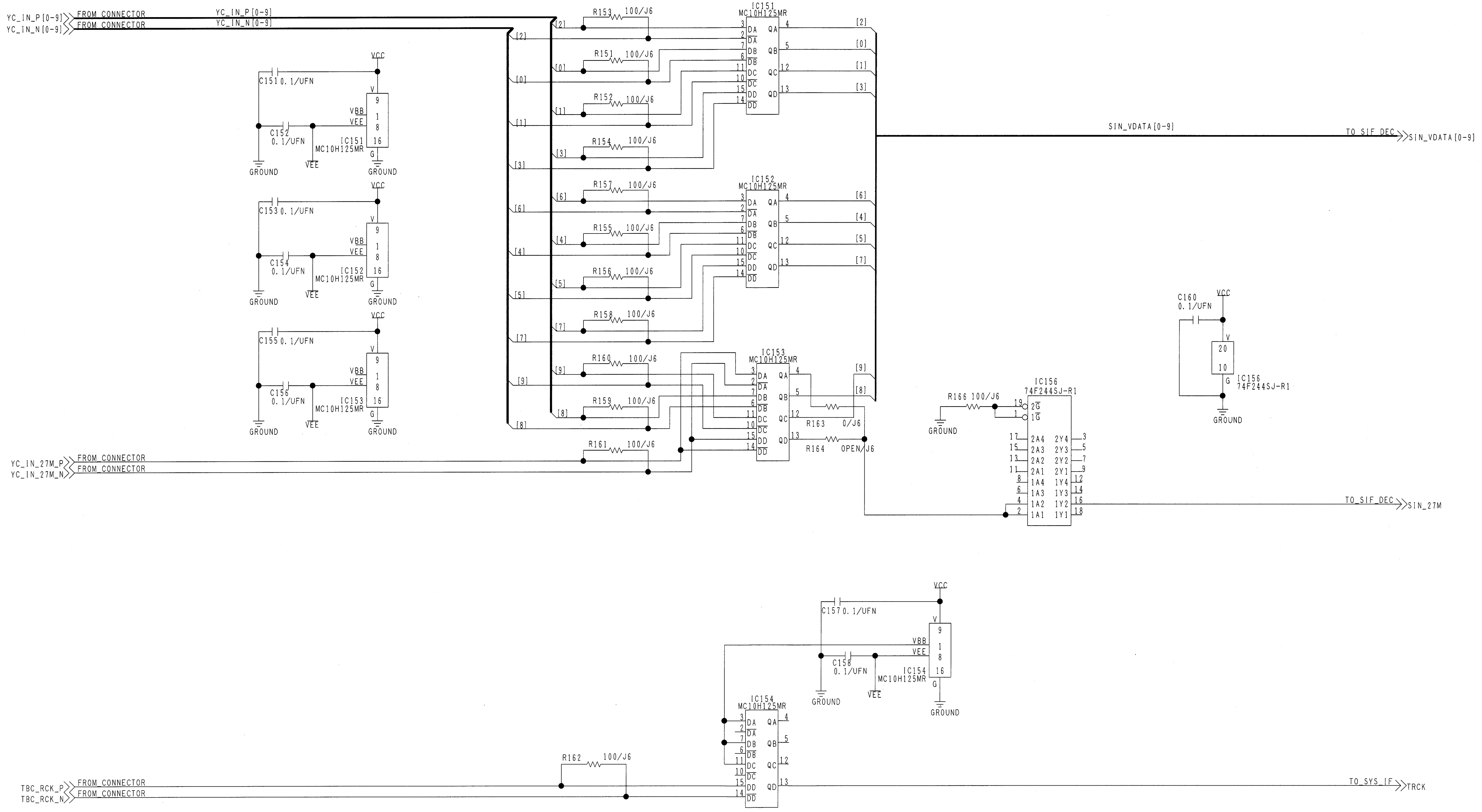
COMPONENT NAME	REC_PB(MOTHER)	23/23
CIRCUIT BOARD NO. VEP83353D:NTSC VEP83353E:PAL	COMPONENT PATH	
KR3S25(23/23)	SCM82	


P12V POWER
N12V POWER
P75V POWER
N75V POWER
AGROUND
YC_IN_P[0-9] INBUFF
YC_IN_N[0-9] INBUFF
YC_IN_P[0-9]
YC_IN_N[0-9]
P1 VJP3454B096
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A VIDEO_IN_G
7A Y_IN_G
8A PB_IN_G
9A PR_IN_G
10A 4P_Y_IN_G
11A 4P_C_IN_G
13A YC_IN_P0
14A YC_IN_N1
15A YC_IN_P3
16A YC_IN_N4
17A YC_IN_P6
18A YC_IN_N7
19A YC_IN_P9
20A YC_IN_27M_N
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +5V
31A -5V
32A GND
VIDEO_IN_G
Y_IN_G
PB_IN_G
PR_IN_G
4P_Y_IN_G
4P_C_IN_G
YC_IN_27M_N
AV_RST_L
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
13B YC_IN_N0
14B YC_IN_P2
15B YC_IN_N3
16B YC_IN_P5
17B YC_IN_N6
18B YC_IN_P8
19B YC_IN_N9
22B AV_CS_VIDEO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +5V
31B -5V
32B GND
AV_CS_VIDEO_L
AV_IORD_L
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C VIDEO_IN
7C Y_IN
8C PB_IN
9C PR_IN
10C 4P_Y_IN
11C 4P_C_IN
12C YC_WIDE
13C YC_IN_P1
14C YC_IN_N2
15C YC_IN_P4
16C YC_IN_N5
17C YC_IN_P7
18C YC_IN_N8
19C YC_IN_27M_P
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +5V
31C -5V
32C GND
YC_IN_27M_P
AV_IOWR_L
R56 R57 R58 R60 R61 0/J6
AV_ADRS[0-10] SYS_IF
AV_DATA[0-7] SYS_IF
AV_ADRS[0-10]
AV_DATA[0-7]
VCC POWER
VEE POWER
L1 VLP0133-T
L2 VLP0133-T
AGROUND
INCOME_CF[0-1] OUTBUFF
REC_C_DATA[0-7] OUTBUFF
INCOME_CF[0-1]
REC_C_DATA[0-7]
P2 VJP3454B096
1A GND
7A TBC_RCK_P
8A TBC_RHRST
9A INCOME_CF1
10A REC_C_DATA7
11A REC_C_DATA4
12A REC_C_DATA1
13A REC_Y_DATA6
14A REC_Y_DATA3
15A REC_Y_DATA0
16A INCOME_HST_N
20A VBLK_CLK
28A VBLK_CSYNC
30A VBLK_SL_CLK
32A GND
TBC_RCK_P
TBC_RHRST
INCOME_HST_N
VBLK_CLK
VBLK_CSYNC
VBLK_SL_CLK
1B GND
7B TBC_RCK_N
8B INCOME_FRM
10B REC_C_DATA6
11B REC_C_DATA3
12B REC_C_DATA0
13B REC_Y_DATA5
14B REC_Y_DATA2
19B VBLK_BW1
20B VBLK_CS
30B VBLK_SL_DATA
32B GND
TBC_RCK_N
INCOME_FRM
VBLK_BW1
VBLK_CS
VBLK_SL_DATA
1C GND
7C TBC_RVRST
8C INCOME_CF0
10C REC_C_DATA5
11C REC_C_DATA2
12C REC_Y_DATA7
13C REC_Y_DATA4
14C REC_Y_DATA1
15C VBLK_BW2
19C VBLK_SDI
22C DEC_DAT
32C GND
TBC_RVRST
VBLK_BW2
VBLK_SDI
DEC_DAT
REC_Y_DATA[0-7] OUTBUFF
REC_Y_DATA[0-7]
AGROUND GROUND
TG1 VJR0646
TG2 VJR0646
TG3 VJR0646
TG4 VJR0646
TG5 VJR0646
TG6 VJR0646
AGROUND
GROUND

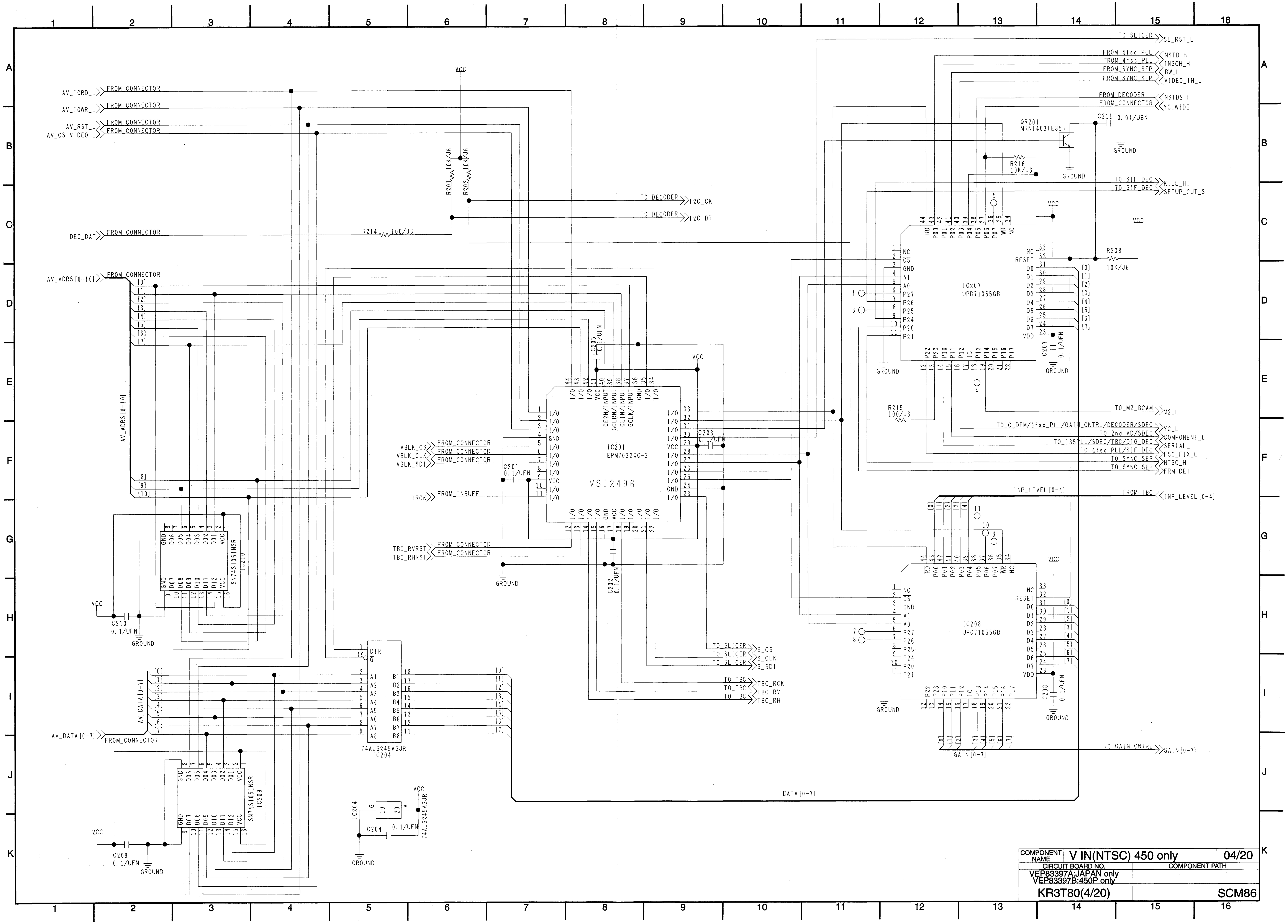
COMPONENT NAME	V IN(NTSC) 450 only	01/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(1/20)	SCM83	


P12V
FROM CONNECTOR
FL101
VLF1016A223T
C101
0.1/UFN
IC101
AN78N09
C102
0.1/UFN
C103
16V47/EVV
C104
0.1/UFN
A12V_P
A9V_P
AGROUND
N12V
FROM CONNECTOR
FL103
VLF1016A223T
C111
0.1/UFN
IC103
AN79N09
C112
0.1/UFN
C113
16V47/EVV
C114
0.1/UFN
A9V_N
AGROUND
P75V
FROM CONNECTOR
L101
VLP0133-T
C105
0.1/UFN
IC102
AN78N05
C106
0.1/UFN
C107
6V33/EVV
C108
0.1/UFN
A75V_P
A5V_P
AGROUND
N75V
FROM CONNECTOR
L102
VLP0133-T
C115
0.1/UFN
IC104
AN79N05
C116
0.1/UFN
C117
6V33/EVV
C118
0.1/UFN
A75V_N
A5V_N
AGROUND
VCC
FROM CONNECTOR
VCC
C109
16V47/EVV
C110
0.1/UFN
AGROUND
VEE
FROM CONNECTOR
VEE
C119
16V47/EVV
C120
0.1/UFN
AGROUND

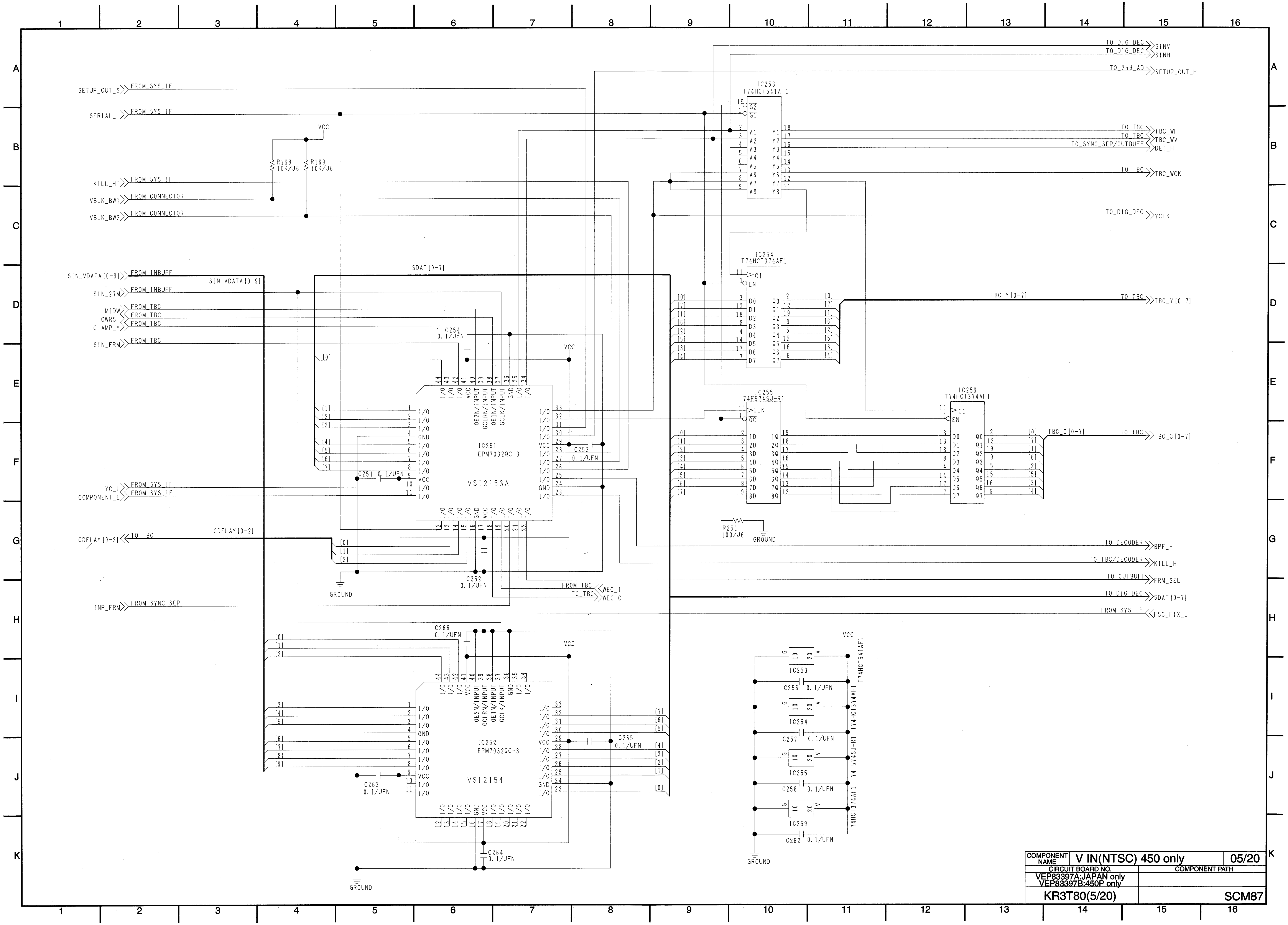
COMPONENT NAME	V IN(NTSC) 450 only	02/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(2/20)	SCM84	


YC_IN_P[0-9]
YC_IN_N[0-9]
FROM CONNECTOR
YC_IN_P[0-9]
YC_IN_N[0-9]
R153 100/J6
R151 100/J6
R152 100/J6
R154 100/J6
R157 100/J6
R155 100/J6
R156 100/J6
R158 100/J6
R160 100/J6
R159 100/J6
R161 100/J6
R162 100/J6
R163 0/J6
R164 OPEN/J6
R166 100/J6
IC151 MC10H125MR
IC152 MC10H125MR
IC153 MC10H125MR
IC154 MC10H125MR
IC156 74F244SJ-R1
C151 0.1/UFN
C152 0.1/UFN
C153 0.1/UFN
C154 0.1/UFN
C155 0.1/UFN
C156 0.1/UFN
C157 0.1/UFN
C158 0.1/UFN
C160 0.1/UFN
VCC
VBB
VEE
GROUND
DA
DB
DC
DD
QA
QB
QC
QD
2G
1G
2A4 2A3 2A2 2A1 1A4 1A3 1A2 1A1
2Y4 2Y3 2Y2 2Y1 1Y4 1Y3 1Y2 1Y1
SIN_VDATA[0-9]
TO SIF DEC
SIN_VDATA[0-9]
YC_IN_27M_P
YC_IN_27M_N
TO SIF DEC
SIN_27M
TBC_RCK_P
TBC_RCK_N
TO SYS IF
TRCK

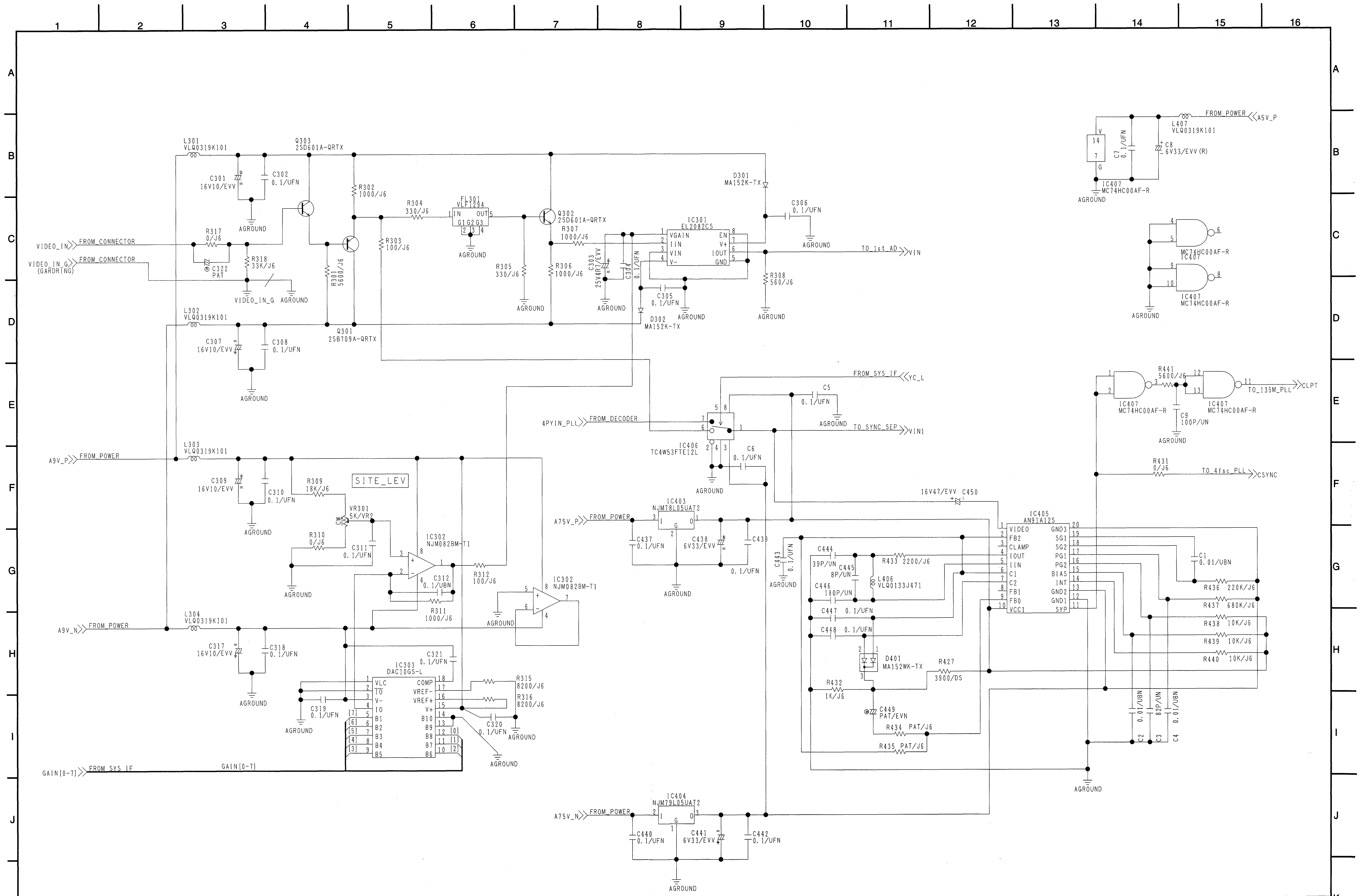
COMPONENT NAME	V IN(NTSC) 450 only	03/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(3/20)	SCM85	


AV_IORD_L FROM_CONNECTOR
AV_IOWR_L FROM_CONNECTOR
AV_RST_L FROM_CONNECTOR
AV_CS_VIDEO_L FROM_CONNECTOR
DEC_DAT FROM_CONNECTOR
AV_ADRS[0-10] FROM_CONNECTOR
AV_ADRS[0-10]
VCC
R201 10K/J6
R202 10K/J6
R214 100/J6
TO_DECODER I2C_CK
TO_DECODER I2C_DT
C205 0.1/UFN
C201 0.1/UFN
C202 0.1/UFN
C203 0.1/UFN
IC201 EPM7032QC-3
VSI2496
OE2N/INPUT
GCLRN/INPUT
OE1N/INPUT
GCLK/INPUT
VBLK_CS FROM_CONNECTOR
VBLK_CLK FROM_CONNECTOR
VBLK_SDI FROM_CONNECTOR
TRCK FROM_INBUFF
TBC_RVRST FROM_CONNECTOR
TBC_RHRST FROM_CONNECTOR
GROUND
TO_SLICER S_CS
TO_SLICER S_CLK
TO_SLICER S_SDI
TO_TBC TBC_RCK
TO_TBC TBC_RV
TO_TBC TBC_RH
SN74S1051NSR IC210
SN74S1051NSR IC209
C210 0.1/UFN
C209 0.1/UFN
74ALS245ASJR IC204
C204 0.1/UFN
AV_DATA[0-7] FROM_CONNECTOR
AV_DATA[0-7]
DATA[0-7]
TO_SLICER SL_RST_L
FROM_4fsc_PLL NSTD_H
FROM_4fsc_PLL INSCH_H
FROM_SYNC_SEP BW_L
FROM_SYNC_SEP VIDEO_IN_L
FROM_DECODER NSTD2_H
FROM_CONNECTOR YC_WIDE
C211 0.01/UBN
QR201 MRN1403TE85R
R216 10K/J6
TO_SIF_DEC KILL_HI
TO_SIF_DEC SETUP_CUT_S
R208 10K/J6
IC207 UPD71055GB
IC208 UPD71055GB
C207 0.1/UFN
C208 0.1/UFN
R215 100/J6
TO_M2_BCAM M2_L
TO_C_DEM/4fsc_PLL/GAIN_CNTRL/DECODER/SDEC YC_L
TO_2nd_AD/SDEC COMPONENT_L
TO_135PLL/SDEC/TBC/DIG_DEC SERIAL_L
TO_4fsc_PLL/SIF_DEC FSC_FIX_L
TO_SYNC_SEP NTSC_H
TO_SYNC_SEP FRM_DET
INP_LEVEL[0-4]
FROM_TBC INP_LEVEL[0-4]
TO_GAIN_CNTRL GAIN[0-7]
GAIN[0-7]

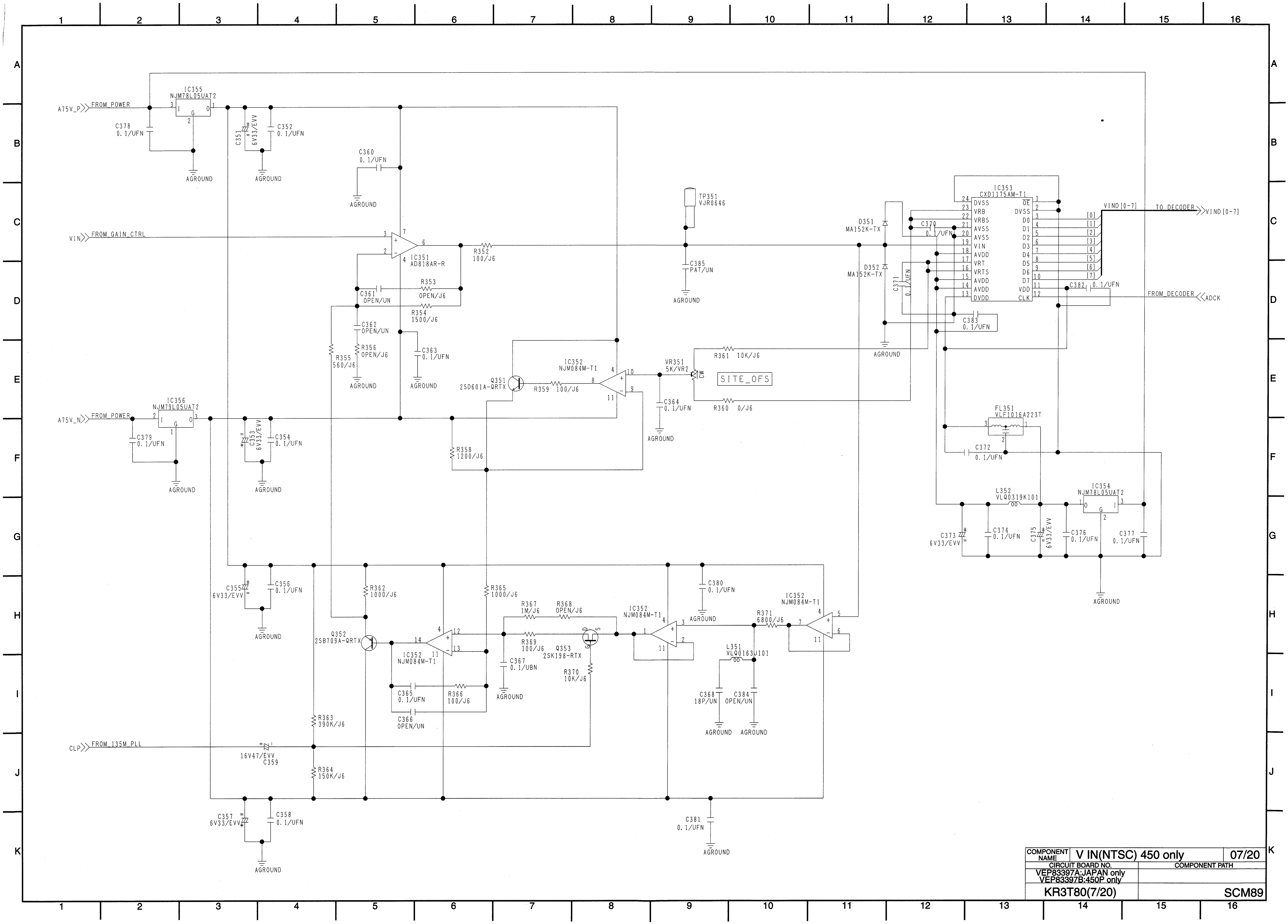
COMPONENT NAME	V IN(NTSC) 450 only	04/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(4/20)		SCM86


SETUP_CUT_S FROM_SYS_IF
SERIAL_L FROM_SYS_IF
KILL_H FROM_SYS_IF
VBLK_BW1 FROM_CONNECTOR
VBLK_BW2 FROM_CONNECTOR
SIN_VDATA[0-9] FROM_INBUFF
SIN_27M FROM_INBUFF
MIDW FROM_TBC
CWRST FROM_TBC
CLAMP_Y FROM_TBC
SIN_FRM FROM_TBC
YC_L FROM_SYS_IF
COMPONENT_L FROM_SYS_IF
CDELAY[0-2] TO_TBC
INP_FRM FROM_SYNC_SEP
VCC
R168 10K/J6
R169 10K/J6
SDAT[0-7]
SIN_VDATA[0-9]
CDELAY[0-2]
C254 0.1/UFN
C253 0.1/UFN
C251 0.1/UFN
C252 0.1/UFN
GROUND
IC251 EPM7032QC-3
VSI2153A
OE2N/INPUT
GCLRN/INPUT
OE1N/INPUT
GCLK/INPUT
I/O
GND
VCC
C266 0.1/UFN
C265 0.1/UFN
C263 0.1/UFN
C264 0.1/UFN
IC252 EPM7032QC-3
VSI2154
IC253 T74HCT541AF1
G2 G1 A1 A2 A3 A4 A5 A6 A7 A8 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
IC254 T74HCT374AF1
C1 EN D0 D1 D2 D3 D4 D5 D6 D7 Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
IC255 74F574SJ-R1
CLK OC 1D 2D 3D 4D 5D 6D 7D 8D 1Q 2Q 3Q 4Q 5Q 6Q 7Q 8Q
IC259 T74HCT374AF1
R251 100/J6
TO_DIG_DEC SINV
TO_DIG_DEC SINH
TO_2nd_AD SETUP_CUT_H
TO_TBC TBC_WH
TO_TBC TBC_WV
TO_SYNC_SEP/OUTBUFF DET_H
TO_TBC TBC_WCK
TO_DIG_DEC YCLK
TBC_Y[0-7] TO_TBC TBC_Y[0-7]
TBC_C[0-7] TO_TBC TBC_C[0-7]
TO_DECODER BPF_H
TO_TBC/DECODER KILL_H
TO_OUTBUFF FRM_SEL
FROM_TBC WEC_I
TO_TBC WEC_O
TO_DIG_DEC SDAT[0-7]
FROM_SYS_IF FSC_FIX_L
IC253 C256 0.1/UFN T74HCT541AF1
IC254 C257 0.1/UFN T74HCT374AF1
IC255 C258 0.1/UFN 74F574SJ-R1
IC259 C262 0.1/UFN T74HCT374AF1
G 10 20 V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

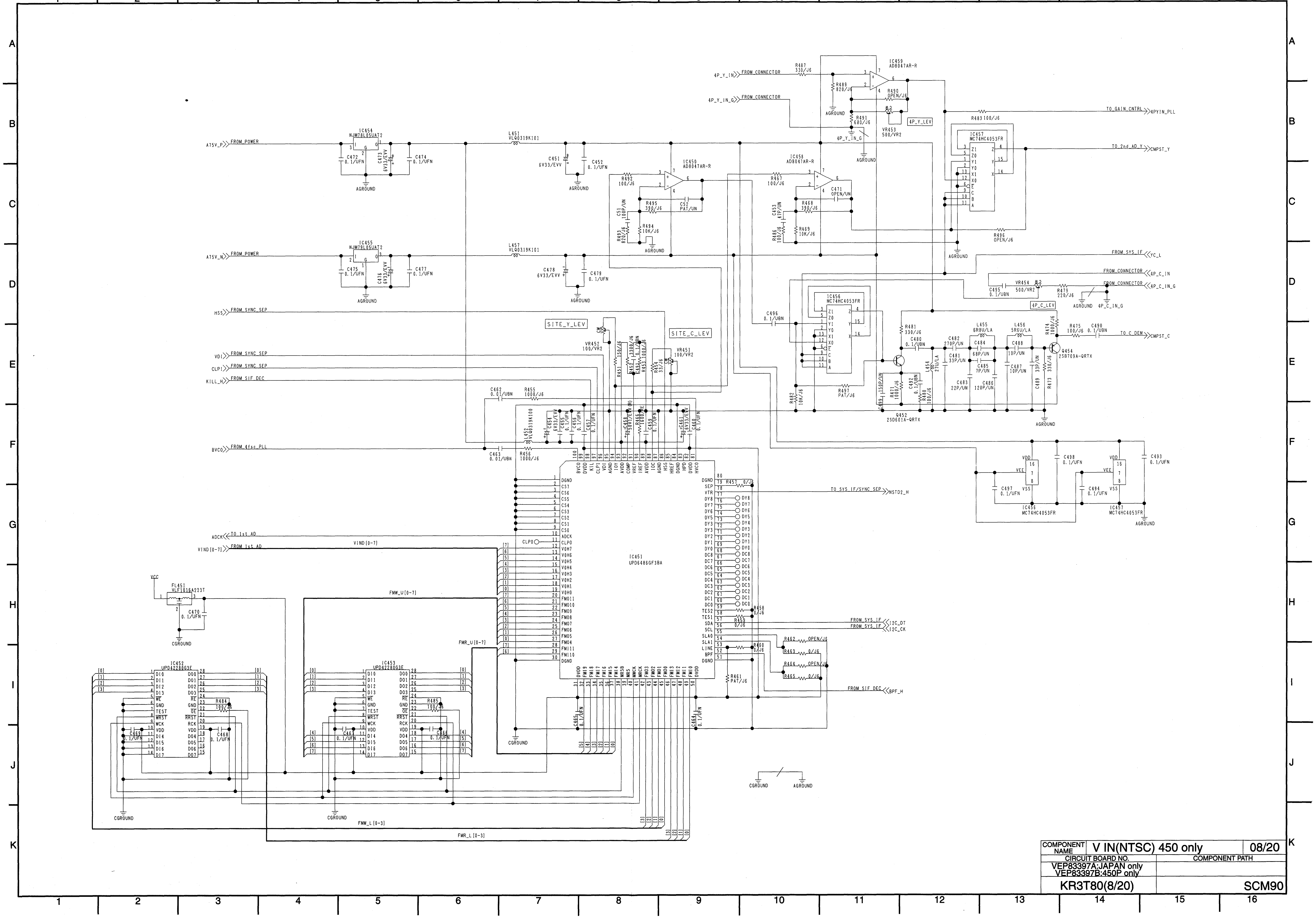
COMPONENT NAME	V IN(NTSC) 450 only	05/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(5/20)	SCM87	


VIDEO_IN FROM_CONNECTOR
VIDEO_IN_G (GARDRING) FROM_CONNECTOR
L301 VLQ0319K101
C301 16V10/EVV
C302 0.1/UFN
Q303 2SD601A-QRTX
R302 1000/J6
R317 0/J6
C322 PAT
R318 33K/J6
VIDEO_IN_G
AGROUND
R301 5600/J6
R303 100/J6
R304 330/J6
FL301 VLF1294
Q301 2SB709A-QRTX
L302 VLQ0319K101
C307 16V10/EVV
C308 0.1/UFN
Q302 2SD601A-QRTX
R307 1000/J6
R305 330/J6
R306 1000/J6
C303 25V4R7/EVV
C304 0.1/UFN
IC301 EL2082CS
VGAIN EN IIN V+ VIN IOUT V- GND
C305 0.1/UFN
D302 MA152K-TX
D301 MA152K-TX
C306 0.1/UFN
R308 560/J6
TO_1st_AD VIN
FROM_POWER A5V_P
L407 VLQ0319K101
C7 0.1/UFN
C8 6V33/EVV(R)
IC407 MC74HC00AF-R
FROM_SYS_IF YC_L
C5 0.1/UFN
4PYIN_PLL FROM_DECODER
TO_SYNC_SEP VIN1
IC406 TC4W53FTE12L
C6 0.1/UFN
R441 5600/J6
TO_135M_PLL CLPT
C9 100P/UN
R431 0/J6
TO_4fsc_PLL CSYNC
A9V_P FROM_POWER
L303 VLQ0319K101
C309 16V10/EVV
C310 0.1/UFN
SITE_LEV
R309 18K/J6
VR301 5K/VR2
R310 0/J6
C311 0.1/UFN
IC302 NJM082BM-T1
C312 0.1/UBN
R311 1000/J6
R312 100/J6
A9V_N FROM_POWER
L304 VLQ0319K101
C317 16V10/EVV
C318 0.1/UFN
C321 0.1/UFN
IC303 DAC10GS-L
VLC IO V- IO B1 B2 B3 B4 B5 COMP VREF- VREF+ V+ B10 B9 B8 B7 B6
R315 8200/J6
R316 8200/J6
C319 0.1/UFN
C320 0.1/UFN
GAIN[0-7] FROM_SYS_IF GAIN[0-7]
A75V_P FROM_POWER
IC403 NJM78L05UAT2
C437 0.1/UFN
C438 6V33/EVV
C439 0.1/UFN
16V47/EVV C450
IC405 AN91A12S
VIDEO FB2 CLAMP IOUT IIN C1 C2 FB1 FB0 VCC1 GND3 SG1 SG2 PG1 PG2 BIAS INT GND2 GND1 SYP
C443 0.1/UFN
C444 39P/UN
C445 8P/UN
R433 2200/J6
L406 VLQ0133J471
C446 180P/UN
C447 0.1/UFN
C448 0.1/UFN
D401 MA152WK-TX
R427 3900/DS
R432 1K/J6
C449 PAT/EVN
R434 PAT/J6
R435 PAT/J6
C1 0.01/UBN
R436 220K/J6
R437 680K/J6
R438 10K/J6
R439 10K/J6
R440 10K/J6
C2 0.01/UBN
C3 82P/UN
C4 0.01/UBN
A75V_N FROM_POWER
IC404 NJM79L05UAT2
C440 0.1/UFN
C441 6V33/EVV
C442 0.1/UFN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	V IN(NTSC) 450 only	06/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(6/20)		SCM88

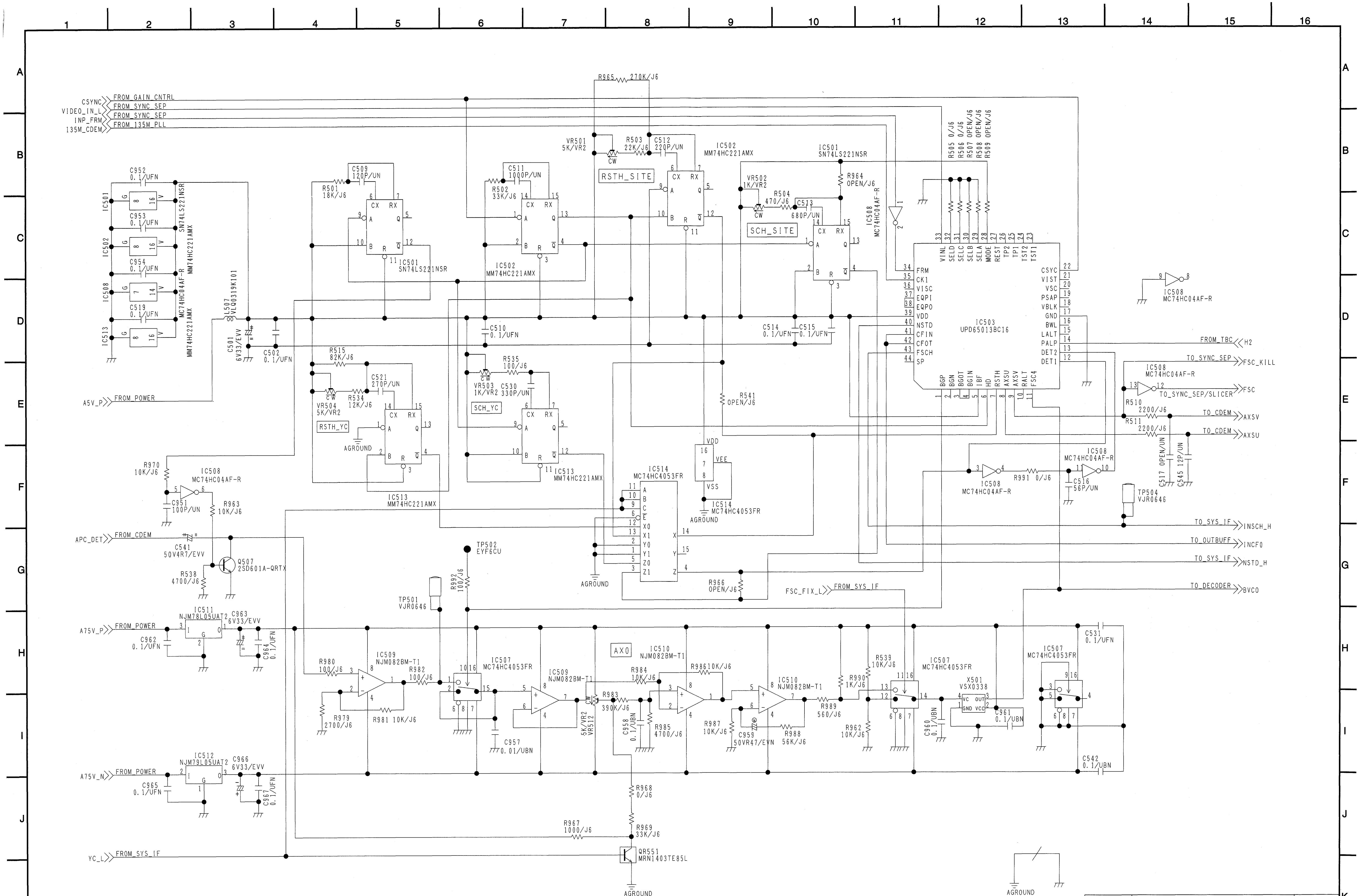

A75V_P
FROM_POWER
IC355
NJM78L05UAT2
C378
0.1/UFN
AGROUND
C351
6V33/EVV
C352
0.1/UFN
C360
0.1/UFN
VIN
FROM_GAIN_CTRL
IC351
AD818AR-R
R352
100/J6
C361
OPEN/UN
R353
OPEN/J6
R354
1500/J6
C362
OPEN/UN
R355
560/J6
R356
OPEN/J6
C363
0.1/UFN
TP351
VJR0646
C385
PAT/UN
IC352
NJM084M-T1
Q351
2SD601A-QRTX
R359
100/J6
VR351
5K/VR2
CW
SITE_OFS
R361 10K/J6
R360 0/J6
C364
0.1/UFN
A75V_N
IC356
NJM79L05UAT2
C379
0.1/UFN
C353
6V33/EVV
C354
0.1/UFN
R358
1200/J6
IC353
CXD1175AM-T1
DVSS
VRB
VRBS
AVSS
AVSS
VIN
AVDD
VRT
VRTS
AVDD
AVDD
DVDD
OE
DVSS
D0
D1
D2
D3
D4
D5
D6
D7
VDD
CLK
D351
MA152K-TX
D352
MA152K-TX
C370
0.1/UFN
C371
0.1/UFN
C382
0.1/UFN
C383
0.1/UFN
VIND[0-7]
TO DECODER
VIND[0-7]
[0]
[1]
[2]
[3]
[4]
[5]
[6]
[7]
FROM_DECODER
ADCK
FL351
VLF1016A223T
C372
0.1/UFN
L352
VLQ0319K101
IC354
NJM78L05UAT2
C373
6V33/EVV
C374
0.1/UFN
C375
6V33/EVV
C376
0.1/UFN
C377
0.1/UFN
C355
6V33/EVV
C356
0.1/UFN
R362
1000/J6
Q352
2SB709A-QRTX
R365
1000/J6
R367
1M/J6
R368
OPEN/J6
R369
100/J6
Q353
2SK198-RTX
C367
0.1/UBN
R370
10K/J6
C365
0.1/UFN
R366
100/J6
C366
OPEN/UN
C380
0.1/UFN
R371
6800/J6
L351
VLQ0163J101
C368
18P/UN
C384
OPEN/UN
R363
390K/J6
CLP
FROM_135M_PLL
16V47/EVV
C359
R364
150K/J6
C357
6V33/EVV
C358
0.1/UFN
C381
0.1/UFN
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

COMPONENT NAME	V IN(NTSC) 450 only	07/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(7/20)	SCM89	

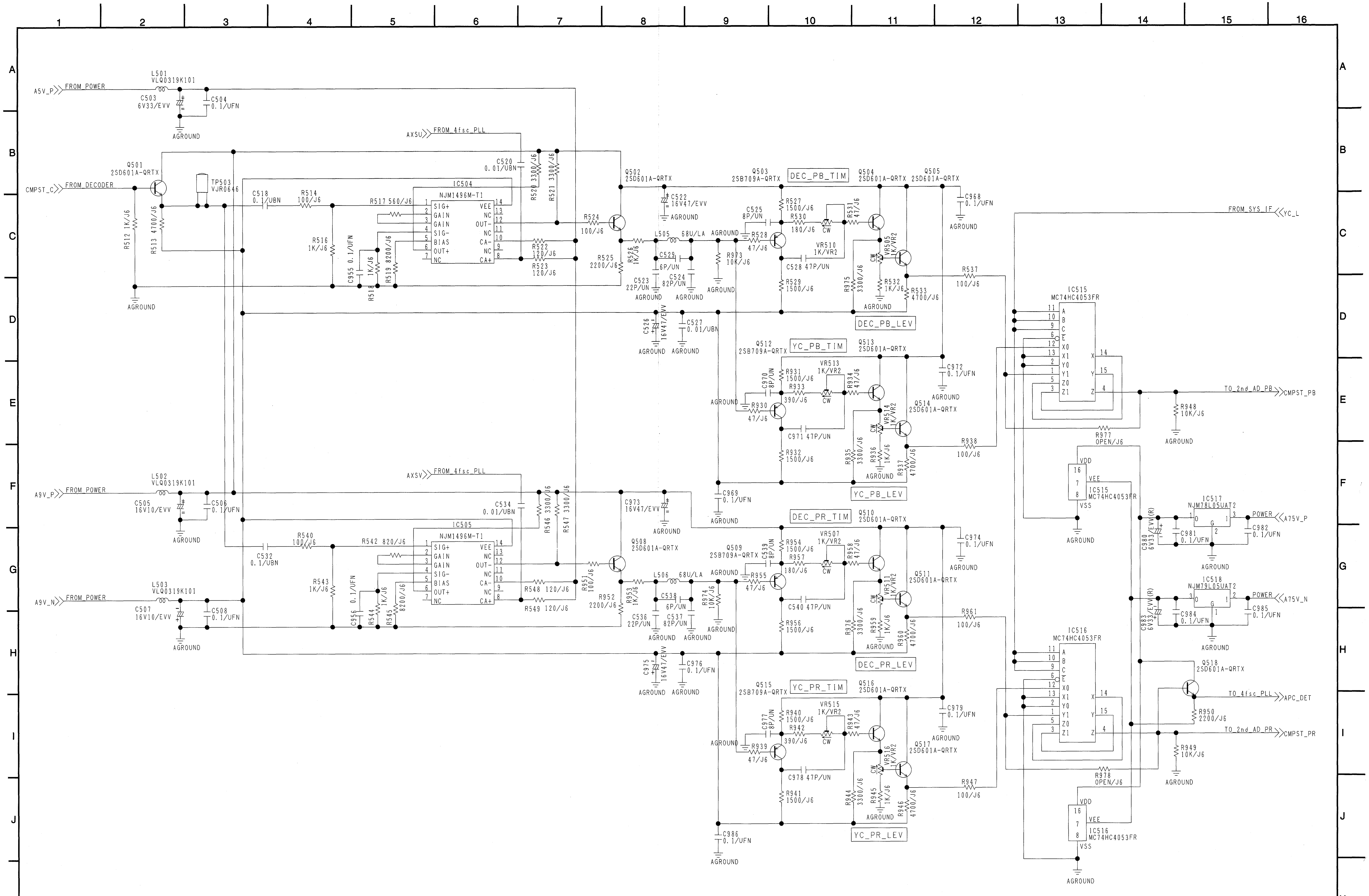


IC454 NJM78L05UA72
IC455 NJM79L05UA72
A75V_P FROM POWER
A75V_N FROM POWER
L451 VLQ0319K101
L457 VLQ0319K101
AGROUND
CGROUND
IC450 AD8047AR-R
IC458 AD8047AR-R
IC459 AD8047AR-R
4P_Y_IN FROM CONNECTOR
4P_Y_IN_G FROM CONNECTOR
4P_Y_LEV
VR453 500/VR2
TO GAIN CNTRL 4PYIN_PLL
IC457 MC74HC4053FR
TO 2nd AD Y CMPST_Y
FROM SYS IF YC_L
FROM CONNECTOR 4P_C_IN
FROM CONNECTOR 4P_C_IN_G
VR454 500/VR2
4P_C_LEV
IC456 MC74HC4053FR
L455 6R8U/LA
L456 5R6U/LA
Q452 2SD601A-QRTX
Q454 2SB709A-QRTX
TO C DEM CMPST_C
HSS FROM SYNC SEP
VDI FROM SYNC SEP
CLPI FROM SYNC SEP
KILL_H FROM SIF DEC
BVCO FROM 4fsc PLL
SITE_Y_LEV
SITE_C_LEV
VR452 100/VR2
VR451 100/VR2
IC451 UPD6486GF3BA
ADCK TO 1st AD
VIN0[0-7] FROM 1st AD
VIND[0-7]
FMW_U[0-7]
FMR_U[0-7]
FMW_L[0-3]
FMR_L[0-3]
TO SYS IF/SYNC SEP NSTD2_H
FROM SYS IF I2C_DT
FROM SYS IF I2C_CK
FROM SIF DEC BPF_H
VCC
FL451 VLF1016A223T
IC452 UPD42280G3E
IC453 UPD42280G3E
IC455 MC74HC4053FR
IC457 MC74HC4053FR

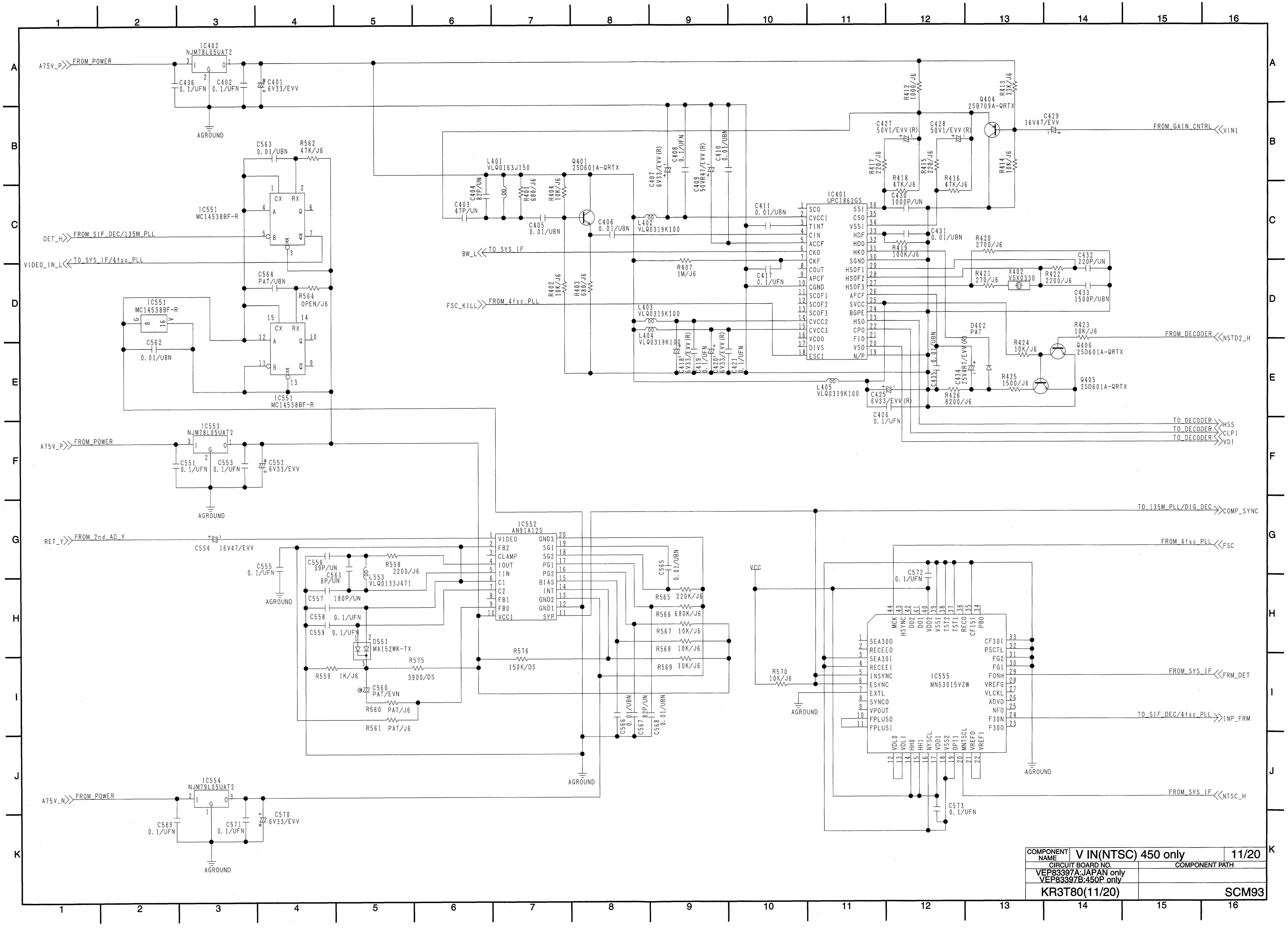
COMPONENT NAME	V IN(NTSC) 450 only	08/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(8/20)		SCM90


CSYNC
FROM_GAIN_CNTRL
VIDEO_IN_L
FROM_SYNC_SEP
INP_FRM
FROM_SYNC_SEP
135M_CDEM
FROM_135M_PLL
R965 270K/J6
VR501 5K/VR2
R503 22K/J6
C512 220P/UN
RSTH_SITE
IC502 MM74HC221AMX
IC501 SN74LS221NSR
VR502 1K/VR2
R504 470/J6
C513 680P/UN
R964 OPEN/J6
SCH_SITE
IC508 MC74HC04AF-R
R505 0/J6
R506 0/J6
R507 OPEN/J6
R508 OPEN/J6
R509 OPEN/J6
C952 0.1/UFN
C953 0.1/UFN
C954 0.1/UFN
C519 0.1/UFN
IC501
IC502
IC508
IC513
SN74LS221NSR
MM74HC221AMX
MC74HC04AF-R
MM74HC221AMX
C509 120P/UN
R501 18K/J6
C511 1000P/UN
R502 33K/J6
IC501 SN74LS221NSR
IC502 MM74HC221AMX
L507 VLQ0319K101
C501 6V33/EVV
C502 0.1/UFN
C510 0.1/UFN
C514 0.1/UFN
C515 0.1/UFN
IC503 UPD65013BC16
FRM CK1 VISC EQPI EQPO VDD NSTD CFIN CFOT FSCH SP
VINL SELD SELC SELB SELA MODE REST TP2 TP1 TST2 TST1
CSYC VIST VSC PSAP VBLK GND BWL LALT PALP DET2 DET1
BGP BGN BGOT BGIN IBF HD RSTH AXSU AXSV RALT FSC4
IC508 MC74HC04AF-R
FROM_TBC H2
TO_SYNC_SEP FSC_KILL
TO_SYNC_SEP/SLICER FSC
R510 2200/J6
TO_CDEM AXSV
R511 2200/J6
TO_CDEM AXSU
C517 OPEN/UN
C545 12P/UN
IC508 MC74HC04AF-R
R991 0/J6
C516 56P/UN
TP504 VJR0646
TO_SYS_IF INSCH_H
TO_OUTBUFF INCF0
TO_SYS_IF NSTD_H
TO_DECODER BVC0
A5V_P
FROM_POWER
R515 82K/J6
C521 270P/UN
VR504 5K/VR2
R534 12K/J6
RSTH_YC
AGROUND
IC513 MM74HC221AMX
R535 100/J6
VR503 1K/VR2
C530 330P/UN
SCH_YC
IC513 MM74HC221AMX
R541 OPEN/J6
IC514 MC74HC4053FR
VDD VEE VSS
IC514 MC74HC4053FR
AGROUND
R966 OPEN/J6
FSC_FIX_L
FROM_SYS_IF
R970 10K/J6
IC508 MC74HC04AF-R
C951 100P/UN
R963 10K/J6
APC_DET
FROM_CDEM
C541 50V4R7/EVV
Q507 2SD601A-QRTX
R538 4700/J6
TP502 EYF6CU
TP501 VJR0646
R992 100/J6
A75V_P
FROM_POWER
IC511 NJM78L05UAT2
C963 6V33/EVV
C962 0.1/UFN
C964 0.1/UFN
IC509 NJM082BM-T1
R980 100/J6
R982 100/J6
R979 2700/J6
R981 10K/J6
IC507 MC74HC4053FR
C957 0.01/UBN
IC509 NJM082BM-T1
AX0
IC510 NJM082BM-T1
R984 10K/J6
R986 10K/J6
VR512 5K/VR2
R983 390K/J6
C958 0.1/UBN
R985 4700/J6
IC510 NJM082BM-T1
R987 10K/J6
C959 50VR47/EVN
R988 56K/J6
R989 560/J6
R539 10K/J6
R990 1K/J6
R962 10K/J6
IC507 MC74HC4053FR
C960 0.1/UBN
X501 VSX0338
C961 0.1/UBN
IC507 MC74HC4053FR
C531 0.1/UFN
C542 0.1/UBN
A75V_N
FROM_POWER
IC512 NJM79L05UAT2
C966 6V33/EVV
C965 0.1/UFN
C967 0.1/UFN
R968 0/J6
R967 1000/J6
R969 33K/J6
YC_L
FROM_SYS_IF
QR551 MRN1403TE85L
AGROUND
AGROUND

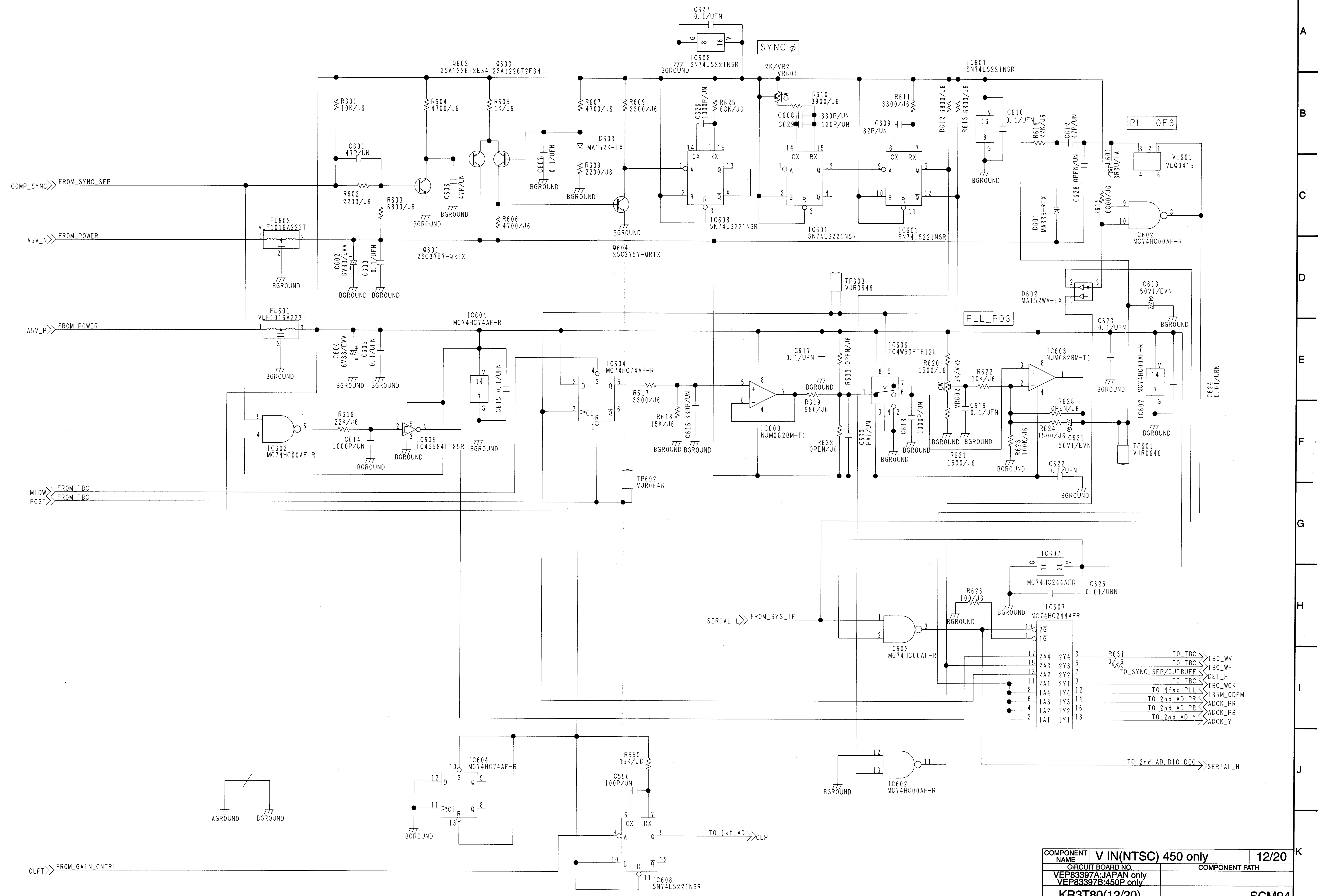
COMPONENT NAME	V IN(NTSC) 450 only	09/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(9/20)		SCM91


A5V_P
FROM_POWER
L501
VLQ0319K101
C503
6V33/EVV
C504
0.1/UFN
AGROUND
AXSU
FROM_4fsc_PLL
Q501
2SD601A-QRTX
CMPST_C
FROM_DECODER
TP503
VJR0646
C518
0.1/UBN
R514
100/J6
R517 560/J6
IC504
NJM1496M-T1
SIG+
GAIN
SIG-
BIAS
OUT+
NC
VEE
OUT-
CA-
CA+
C520
0.01/UBN
R520 3300/J6
R521 3300/J6
R512 1K/J6
R513 4700/J6
R516
1K/J6
C955 0.1/UFN
R518 1K/J6
R519 8200/J6
R522
120/J6
R523
120/J6
R524
100/J6
R525
2200/J6
R526
1K/J6
Q502
2SD601A-QRTX
C522
16V47/EVV
L505 68U/LA
C529
6P/UN
C523
22P/UN
C524
82P/UN
R973
10K/J6
Q503
2SB709A-QRTX
DEC_PB_TIM
C525
8P/UN
R527
1500/J6
R528
47/J6
R530
180/J6
CW
R531
47/J6
VR510
1K/VR2
C528 47P/UN
R529
1500/J6
Q504
2SD601A-QRTX
Q505
2SD601A-QRTX
VR505
1K/VR2
R975
3300/J6
R532
1K/J6
R533
4700/J6
C968
0.1/UFN
DEC_PB_LEV
R537
100/J6
C526
16V47/EVV
C527
0.01/UBN
Q512
2SB709A-QRTX
YC_PB_TIM
Q513
2SD601A-QRTX
C970
8P/UN
R931
1500/J6
R933
390/J6
VR513
1K/VR2
R934
47/J6
C972
0.1/UFN
R930
47/J6
C971 47P/UN
R932
1500/J6
Q514
2SD601A-QRTX
VR514
1K/VR2
R935
3300/J6
R936
1K/J6
R937
4700/J6
R938
100/J6
C969
0.1/UFN
YC_PB_LEV
FROM_SYS_IF
YC_L
IC515
MC74HC4053FR
A
B
C
E
X0
X1
Y0
Y1
Z0
Z1
X
Y
Z
R977
OPEN/J6
TO_2nd_AD_PB
CMPST_PB
R948
10K/J6
VDD
VEE
VSS
IC515
MC74HC4053FR
A9V_P
L502
VLQ0319K101
C505
16V10/EVV
C506
0.1/UFN
AXSV
C534
0.01/UBN
R546 3300/J6
R547 3300/J6
C532
0.1/UBN
R540
100/J6
R542 820/J6
IC505
NJM1496M-T1
R543
1K/J6
C956 0.1/UFN
R544 1K/J6
R545 8200/J6
R548 120/J6
R549 120/J6
R951
100/J6
R952
2200/J6
R953
1K/J6
Q508
2SD601A-QRTX
C973
16V47/EVV
L506 68U/LA
C538
6P/UN
C536
22P/UN
C537
82P/UN
R974
10K/J6
A9V_N
L503
VLQ0319K101
C507
16V10/EVV
C508
0.1/UFN
DEC_PR_TIM
Q509
2SB709A-QRTX
C539
8P/UN
R954
1500/J6
R955
47/J6
R957
180/J6
VR507
1K/VR2
R958
47/J6
Q510
2SD601A-QRTX
C974
0.1/UFN
C540 47P/UN
R956
1500/J6
Q511
2SD601A-QRTX
VR511
1K/VR2
R976
3300/J6
R959
1K/J6
R960
4700/J6
R961
100/J6
DEC_PR_LEV
C975
16V47/EVV
C976
0.1/UFN
Q515
2SB709A-QRTX
YC_PR_TIM
Q516
2SD601A-QRTX
C977
8P/UN
R940
1500/J6
R942
390/J6
VR515
1K/VR2
R943
47/J6
C979
0.1/UFN
R939
47/J6
C978 47P/UN
R941
1500/J6
Q517
2SD601A-QRTX
VR516
1K/VR2
R944
3300/J6
R945
1K/J6
R946
4700/J6
R947
100/J6
C986
0.1/UFN
YC_PR_LEV
IC516
MC74HC4053FR
R978
OPEN/J6
IC516
MC74HC4053FR
IC517
NJM78L05UAT2
C980
6V33/EVV(R)
C981
0.1/UFN
POWER
A75V_P
C982
0.1/UFN
IC518
NJM79L05UAT2
C983
6V33/EVV(R)
C984
0.1/UFN
A75V_N
C985
0.1/UFN
Q518
2SD601A-QRTX
TO_4fsc_PLL
APC_DET
R950
2200/J6
TO_2nd_AD_PR
CMPST_PR
R949
10K/J6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

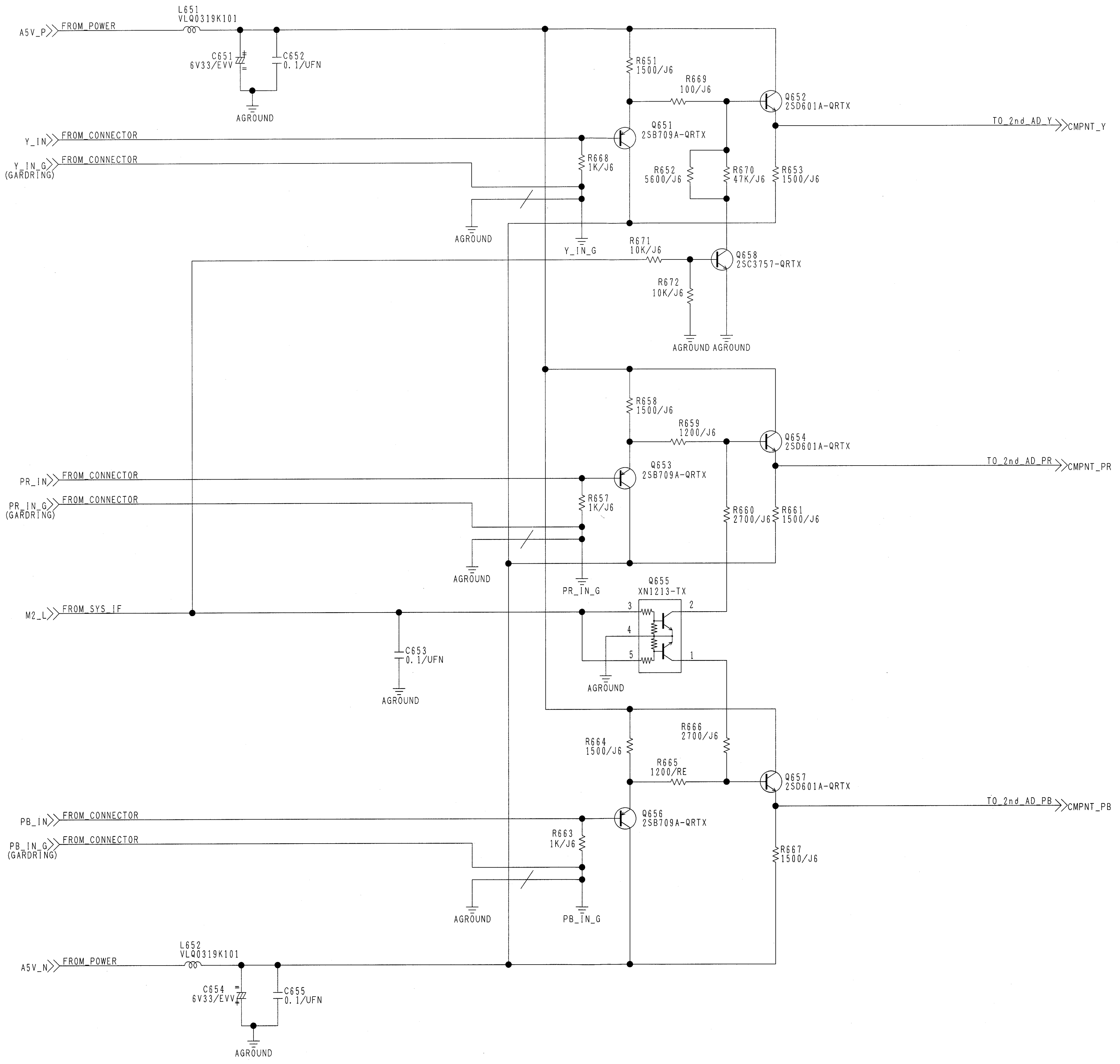
COMPONENT NAME	V IN(NTSC) 450 only	10/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(10/20)	SCM92	


A75V_P FROM_POWER
IC402 NJM78L05UAT2
C436 0.1/UFN
C402 0.1/UFN
C401 6V33/EVV
AGROUND
C563 0.01/UBN
R562 47K/J6
IC551 MC14538BF-R
CX RX A Q B Q̄
DET_H FROM_SIF_DEC/135M_PLL
VIDEO_IN_L TO_SYS_IF/4fsc_PLL
C564 PAT/UBN
R564 OPEN/J6
C562 0.01/UBN
IC553 NJM78L05UAT2
C551 0.1/UFN
C553 0.1/UFN
C552 6V33/EVV
RET_Y FROM_2nd_AD_Y
C554 16V47/EVV
C555 0.1/UFN
IC552 AN91A12S
VIDEO FB2 CLAMP IOUT IIN C1 C2 FB1 FB0 VCC1
GND3 SG1 SG2 PG1 PG2 BIAS INT GND2 GND1 SYP
C556 39P/UN
C561 8P/UN
R558 2200/J6
L553 VLQ0133J471
C557 180P/UN
C558 0.1/UFN
C559 0.1/UFN
D551 MA152WK-TX
R575 3900/DS
R559 1K/J6
C560 PAT/EVN
R560 PAT/J6
R561 PAT/J6
R576 150K/DS
C565 0.01/UBN
R565 220K/J6
R566 680K/J6
R567 10K/J6
R568 10K/J6
R569 10K/J6
C566 0.01/UBN
C567 82P/UN
C568 0.01/UBN
IC554 NJM79L05UAT2
A75V_N FROM_POWER
C569 0.1/UFN
C571 0.1/UFN
C570 6V33/EVV
L401 VLQ0163J150
Q401 2SD601A-QRTX
C403 47P/UN
C404 82P/UN
R401 680/J6
R404 10K/J6
C405 0.01/UBN
C406 0.01/UBN
L402 VLQ0319K100
C407 6V33/EVV (R)
C408 0.1/UFN
C409 50VR47/EVV (R)
C410 0.01/UBN
BW_L TO_SYS_IF
FSC_KILL FROM_4fsc_PLL
R402 10K/J6
R403 680/J6
R407 1M/J6
C417 0.1/UFN
L403 VLQ0319K100
L404 VLQ0319K100
C418 6V33/EVV (R)
C419 0.1/UFN
C420 6V33/EVV (R)
C421 0.1/UFN
L405 VLQ0319K100
C411 0.01/UBN
IC401 UPC1862GS
SCO CVCC1 TINT CIN ACCF CKO CKF COUT APCF CGND SCOF1 SCOF2 SCOF3 CVCC2 CVCC3 VCOO DIVS ESC1
SS1 CSO VSS1 HDF HDO HKO SGND HSOF1 HSOF2 HSOF3 AFCF SVCC BGPE HSO CPO FIO VSO N/P
R412 1000/J6
R413 33K/J6
Q404 2SB709A-QRTX
C429 16V47/EVV
FROM_GAIN_CNTRL VIN1
C427 50V1/EVV (R)
C428 50V1/EVV (R)
R417 220/J6
R415 220/J6
R414 10K/J6
R418 47K/J6
R416 47K/J6
C430 1000P/UN
C431 0.01/UBN
R419 100K/J6
R420 2700/J6
C432 220P/UN
R421 270/J6
X402 VSX0330
R422 2200/J6
C433 1500P/UBN
D402 PAT
R423 10K/J6
FROM_DECODER NSTD2_H
R424 10K/J6
Q406 2SD601A-QRTX
C435 0.01/UBN
C434 25V4R7/EVV (R)
R425 1500/J6
Q405 2SD601A-QRTX
C425 6V33/EVV (R)
R426 8200/J6
C426 0.1/UFN
TO_DECODER HSS
TO_DECODER CLPI
TO_DECODER VDI
TO_135M_PLL/DIG_DEC COMP_SYNC
FROM_4fsc_PLL FSC
VCC
C572 0.1/UFN
IC555 MN53015VZW
MCK HSYNC DO2 DO1 VDD2 VSS1 TST2 TST1 RECO CFI51 PBO
SEA300 RECEE0 SEA30I RECEEI INSYNC ESYNC EXTL SYNCO VPOUT FPLUSO FPLUSI
CF30I PSCTL FG2 FG1 FONH VREFG VLCKL ADVD NFO F30N F300
VDLO VDLI HHO HH1 NYSCL VDD1 VSS2 OPT MNTSCL VREFO VREFI
R570 10K/J6
FROM_SYS_IF FRM_DET
TO_SIF_DEC/4fsc_PLL INP_FRM
FROM_SYS_IF NTSC_H
C573 0.1/UFN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

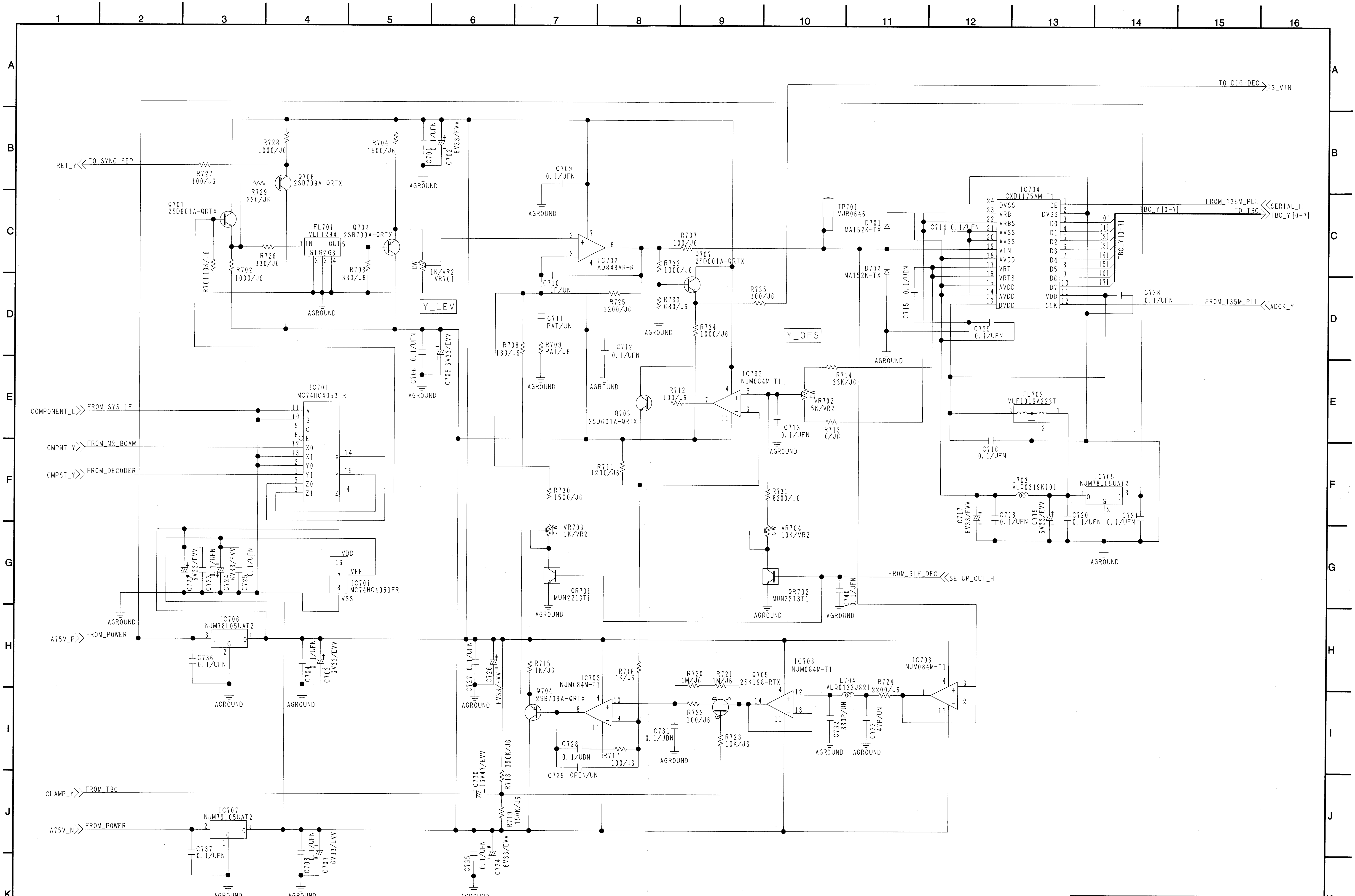
COMPONENT NAME	V IN(NTSC) 450 only	11/20
CIRCUIT BOARD NO. VEP83397A:JAPAN only VEP83397B:450P only	COMPONENT PATH	
KR3T80(11/20)		SCM93


COMP_SYNC
FROM_SYNC_SEP
A5V_N
FROM_POWER
A5V_P
FROM_POWER
MIDW
FROM_TBC
PCST
FROM_TBC
CLPT
FROM_GAIN_CNTRL
SERIAL_L
FROM_SYS_IF
FL602
VLF1016A223T
FL601
VLF1016A223T
C602
6V33/EVV
C603
0.1/UFN
C604
6V33/EVV
C605
0.1/UFN
R601
10K/J6
C601
47P/UN
R602
2200/J6
R603
6800/J6
Q602
2SA1226T2E34
Q603
2SA1226T2E34
R604
4700/J6
R605
1K/J6
C606
47P/UN
R606
4700/J6
Q601
2SC3757-QRTX
C607
0.1/UFN
R607
4700/J6
D603
MA152K-TX
R608
2200/J6
R609
2200/J6
Q604
2SC3757-QRTX
C627
0.1/UFN
IC608
SN74LS221NSR
SYNC ϕ
C626
1000P/UN
R625
68K/J6
2K/VR2
VR601
R610
3900/J6
C608
330P/UN
C629
120P/UN
IC601
SN74LS221NSR
R611
3300/J6
C609
82P/UN
R612 6800/J6
R613 6800/J6
C610
0.1/UFN
R614
22K/J6
C612
47P/UN
PLL_OFS
VL601
VLQ0415
L601
3R3U/LA
C628 OPEN/UN
D601
MA335-RTX
R615
6800/J6
IC602
MC74HC00AF-R
TP603
VJR0646
D602
MA152WA-TX
C613
50V1/EVN
IC604
MC74HC74AF-R
R617
3300/J6
R618
15K/J6
C616 330P/UN
C617
0.1/UFN
R633 OPEN/J6
R619
680/J6
R632
OPEN/J6
IC603
NJM082BM-T1
C630
PAT/UN
IC606
TC4W53FTE12L
C618
1000P/UN
R620
1500/J6
VR602
5K/VR2
C619
0.1/UFN
R621
1500/J6
R622
10K/J6
PLL_POS
R628
OPEN/J6
R624
1500/J6
C621
50V1/EVN
R623
100K/J6
C622
0.1/UFN
C623
0.1/UFN
C624
0.01/UBN
TP601
VJR0646
R616
22K/J6
C614
1000P/UN
IC605
TC4S584FT85R
C615 0.1/UFN
TP602
VJR0646
IC607
MC74HC244AFR
C625
0.01/UBN
R626
100/J6
R631
0/J6
TO_TBC
TBC_WV
TO_TBC
TBC_WH
TO_SYNC_SEP/OUTBUFF
DET_H
TO_TBC
TBC_WCK
TO_4fsc_PLL
135M_CDEM
TO_2nd_AD_PR
ADCK_PR
TO_2nd_AD_PB
ADCK_PB
TO_2nd_AD_Y
ADCK_Y
TO_2nd_AD,DIG_DEC
SERIAL_H
R550
15K/J6
C550
100P/UN
TO_1st_AD
CLP
AGROUND
BGROUND
CX
RX
A
B
R
Q
D
S
C1
V
G
CW

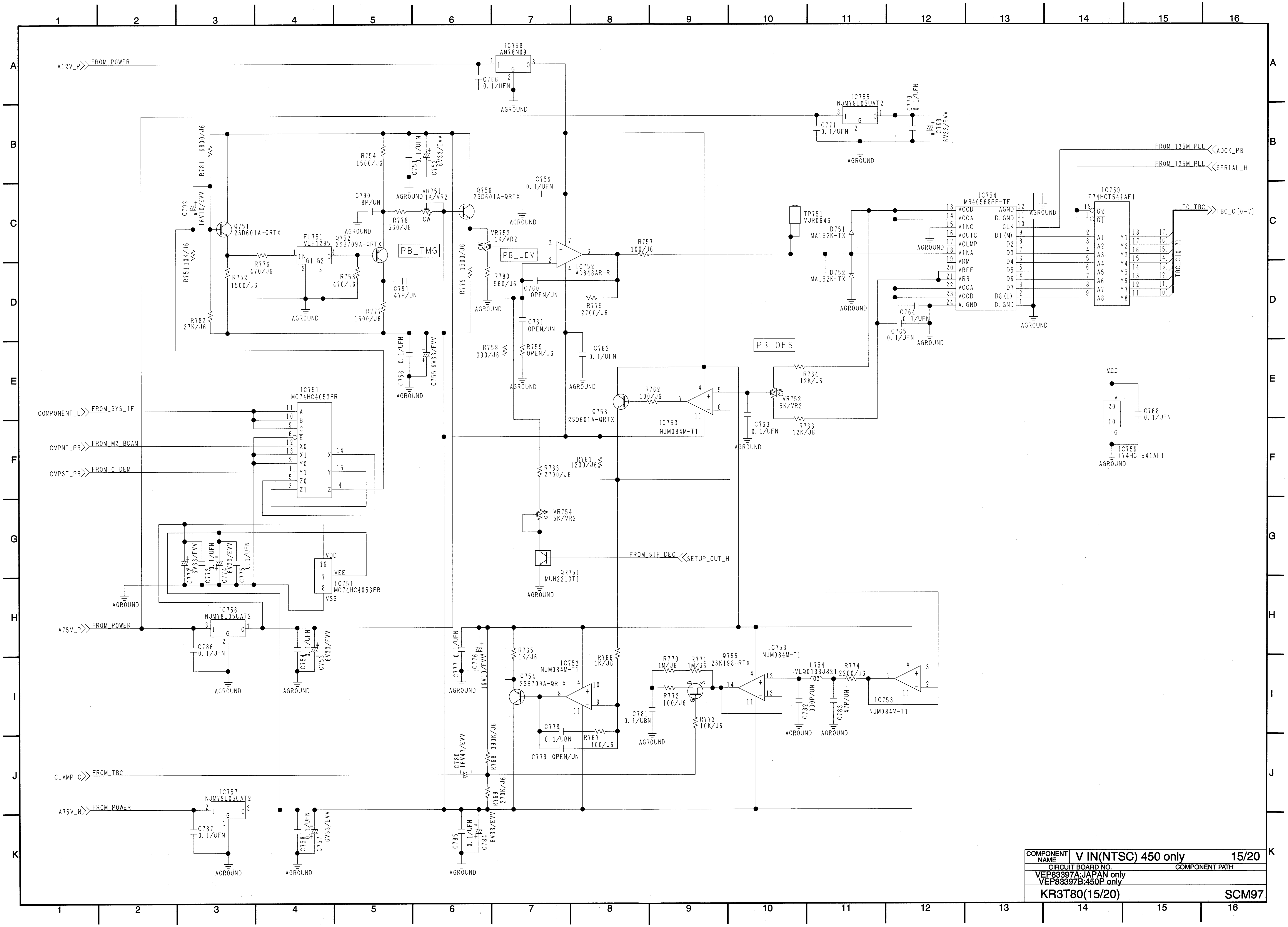
COMPONENT NAME	V IN(NTSC) 450 only	12/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(12/20)	SCM94	


L651
VLQ0319K101
A5V_P
FROM_POWER
C651
6V33/EVV
C652
0.1/UFN
AGROUND
R651
1500/J6
R669
100/J6
Q652
2SD601A-QRTX
TO_2nd_AD_Y
CMPNT_Y
Y_IN
FROM_CONNECTOR
Q651
2SB709A-QRTX
Y_IN_G
(GARDRING)
FROM_CONNECTOR
R668
1K/J6
R652
5600/J6
R670
47K/J6
R653
1500/J6
AGROUND
Y_IN_G
R671
10K/J6
Q658
2SC3757-QRTX
R672
10K/J6
AGROUND AGROUND
R658
1500/J6
R659
1200/J6
Q654
2SD601A-QRTX
TO_2nd_AD_PR
CMPNT_PR
PR_IN
FROM_CONNECTOR
Q653
2SB709A-QRTX
PR_IN_G
(GARDRING)
FROM_CONNECTOR
R657
1K/J6
R660
2700/J6
R661
1500/J6
AGROUND
PR_IN_G
Q655
XN1213-TX
M2_L
FROM_SYS_IF
3
2
4
5
1
C653
0.1/UFN
AGROUND
AGROUND
R666
2700/J6
R664
1500/J6
R665
1200/RE
Q657
2SD601A-QRTX
TO_2nd_AD_PB
CMPNT_PB
PB_IN
FROM_CONNECTOR
Q656
2SB709A-QRTX
PB_IN_G
(GARDRING)
FROM_CONNECTOR
R663
1K/J6
R667
1500/J6
AGROUND
PB_IN_G
L652
VLQ0319K101
A5V_N
FROM_POWER
C654
6V33/EVV
C655
0.1/UFN
AGROUND

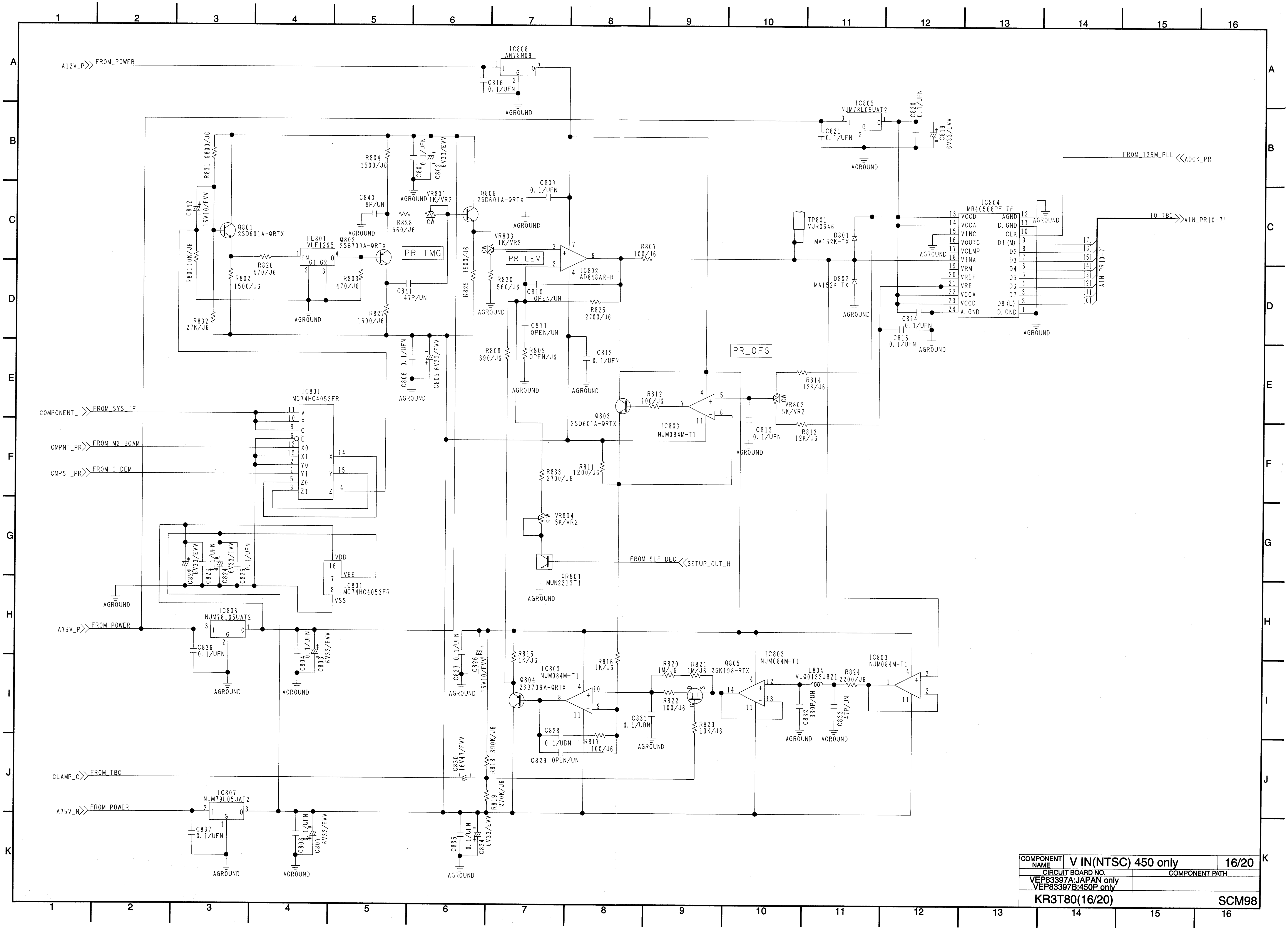
COMPONENT NAME	V IN(NTSC) 450 only	13/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(13/20)	SCM95	


TO_DIG_DEC
S_VIN
RET_Y
TO_SYNC_SEP
R727 100/J6
R728 1000/J6
R729 220/J6
Q706 2SB709A-QRTX
Q701 2SD601A-QRTX
R704 1500/J6
C701 0.1/UFN
C702 6V33/EVV
AGROUND
C709 0.1/UFN
FL701 VLF1294
IN OUT
G1 G2 G3
Q702 2SB709A-QRTX
R726 330/J6
R703 330/J6
R701 10K/J6
R702 1000/J6
CW
1K/VR2
VR701
Y_LEV
IC702 AD848AR-R
C710 1P/UN
R725 1200/J6
C711 PAT/UN
R709 PAT/J6
R708 180/J6
C712 0.1/UFN
R707 100/J6
Q707 2SD601A-QRTX
R732 1000/J6
R733 680/J6
R734 1000/J6
R735 100/J6
TP701 VJR0646
D701 MA152K-TX
D702 MA152K-TX
C715 0.1/UBN
C714 0.1/UFN
Y_OFS
IC704 CXD1175AM-T1
DVSS VRB VRBS AVSS AVSS VIN AVDD VRT VRTS AVDD AVDD DVDD
OE DVSS D0 D1 D2 D3 D4 D5 D6 D7 VDD CLK
FROM_135M_PLL
SERIAL_H
TBC_Y[0-7]
TO TBC
C738 0.1/UFN
ADCK_Y
C739 0.1/UFN
C706 0.1/UFN
C705 6V33/EVV
IC701 MC74HC4053FR
COMPONENT_L
FROM_SYS_IF
CMPNT_Y
FROM_M2_BCAM
CMPST_Y
FROM_DECODER
A B C E X0 X1 Y0 Y1 Z0 Z1 X Y Z
R712 100/J6
Q703 2SD601A-QRTX
IC703 NJM084M-T1
R714 33K/J6
VR702 5K/VR2
R713 0/J6
C713 0.1/UFN
R711 1200/J6
FL702 VLF1016A223T
C716 0.1/UFN
L703 VLQ0319K101
IC705 NJM78L05UAT2
C717 6V33/EVV
C718 0.1/UFN
C719 6V33/EVV
C720 0.1/UFN
C721 0.1/UFN
R730 1500/J6
R731 8200/J6
VR703 1K/VR2
VR704 10K/VR2
QR701 MUN2213T1
QR702 MUN2213T1
FROM_SIF_DEC
SETUP_CUT_H
C740 0.1/UFN
C722 6V33/EVV
C723 0.1/UFN
C724 6V33/EVV
C725 0.1/UFN
IC701 MC74HC4053FR
VDD VEE VSS
IC706 NJM78L05UAT2
A75V_P
FROM_POWER
C736 0.1/UFN
C704 0.1/UFN
C703 6V33/EVV
C727 0.1/UFN
C726 6V33/EVV
R715 1K/J6
Q704 2SB709A-QRTX
R716 1K/J6
R720 1M/J6
R721 1M/J6
Q705 2SK198-RTX
R722 100/J6
C731 0.1/UBN
R723 10K/J6
L704 VLQ0133J821
R724 2200/J6
C732 330P/UN
C733 47P/UN
C728 0.1/UBN
R717 100/J6
C729 OPEN/UN
C730 16V47/EVV
R718 390K/J6
R719 150K/J6
CLAMP_Y
FROM_TBC
A75V_N
IC707 NJM79L05UAT2
C737 0.1/UFN
C708 0.1/UFN
C707 6V33/EVV
C735 0.1/UFN
C734 6V33/EVV

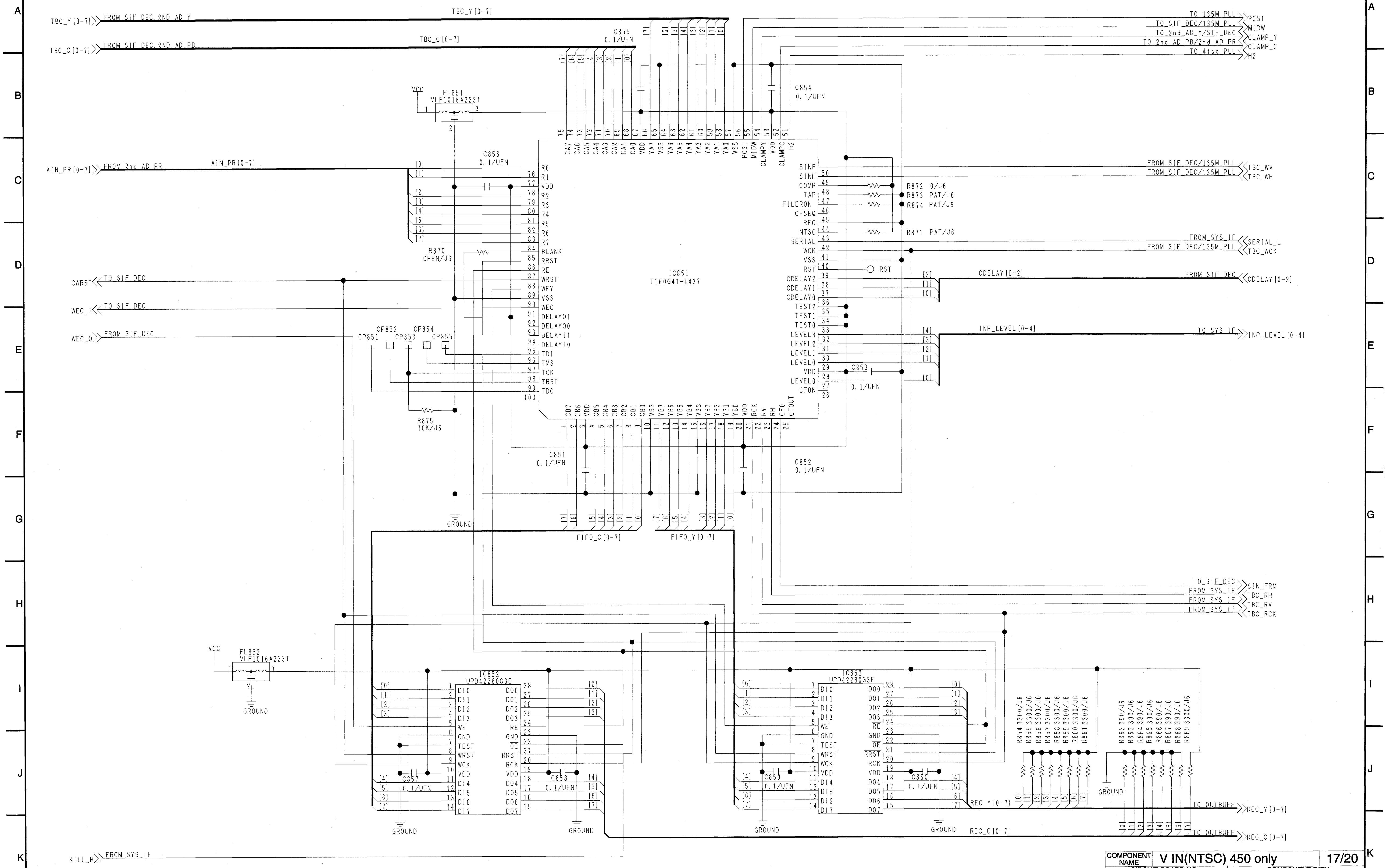
COMPONENT NAME	V IN(NTSC) 450 only	14/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(14/20)	SCM96	


A12V_P FROM_POWER
IC758 AN78N09
C766 0.1/UFN
AGROUND
IC755 NJM78L05UAT2
C770 0.1/UFN
C769 6V33/EVV
C771 0.1/UFN
FROM_135M_PLL ADCK_PB
FROM_135M_PLL SERIAL_H
R781 6800/J6
R754 1500/J6
C751 0.1/UFN
C752 6V33/EVV
VR751 1K/VR2
Q756 2SD601A-QRTX
C759 0.1/UFN
C790 8P/UN
R778 560/J6
C792 16V10/EVV
Q751 2SD601A-QRTX
FL751 VLF1295
Q752 2SB709A-QRTX
PB_TMG
VR753 1K/VR2
PB_LEV
IC752 AD848AR-R
R757 100/J6
TP751 VJR0646
D751 MA152K-TX
D752 MA152K-TX
IC754 MB40568PF-TF
IC759 T74HCT541AF1
TO TBC
TBC_C[0-7]
R751 10K/J6
R776 470/J6
R752 1500/J6
R753 470/J6
C791 47P/UN
R779 1500/J6
R780 560/J6
C760 OPEN/UN
R775 2700/J6
C764 0.1/UFN
C765 0.1/UFN
R782 27K/J6
R777 1500/J6
C761 OPEN/UN
R758 390/J6
R759 OPEN/J6
C762 0.1/UFN
PB_OFS
C756 0.1/UFN
C755 6V33/EVV
R764 12K/J6
VR752 5K/VR2
R763 12K/J6
Q753 2SD601A-QRTX
R762 100/J6
IC753 NJM084M-T1
C763 0.1/UFN
VCC
C768 0.1/UFN
COMPONENT_L FROM_SYS_IF
IC751 MC74HC4053FR
CMPNT_PB FROM_M2_BCAM
CMPST_PB FROM_C_DEM
R783 2700/J6
R761 1200/J6
VR754 5K/VR2
FROM_SIF_DEC SETUP_CUT_H
QR751 MUN2213T1
C772 6V33/EVV
C773 0.1/UFN
C774 6V33/EVV
C775 0.1/UFN
A75V_P FROM_POWER
IC756 NJM78L05UAT2
C786 0.1/UFN
C754 0.1/UFN
C753 6V33/EVV
C777 0.1/UFN
C776 16V10/EVV
R765 1K/J6
Q754 2SB709A-QRTX
R766 1K/J6
R770 1M/J6
R771 1M/J6
Q755 2SK198-RTX
L754 VLQ0133J821
R774 2200/J6
R772 100/J6
C781 0.1/UBN
R773 10K/J6
C782 330P/UN
C783 47P/UN
C778 0.1/UBN
R767 100/J6
C779 OPEN/UN
CLAMP_C FROM_TBC
C780 16V47/EVV
R768 390K/J6
R769 270K/J6
A75V_N FROM_POWER
IC757 NJM79L05UAT2
C787 0.1/UFN
C758 0.1/UFN
C757 6V33/EVV
C785 0.1/UFN
C784 6V33/EVV

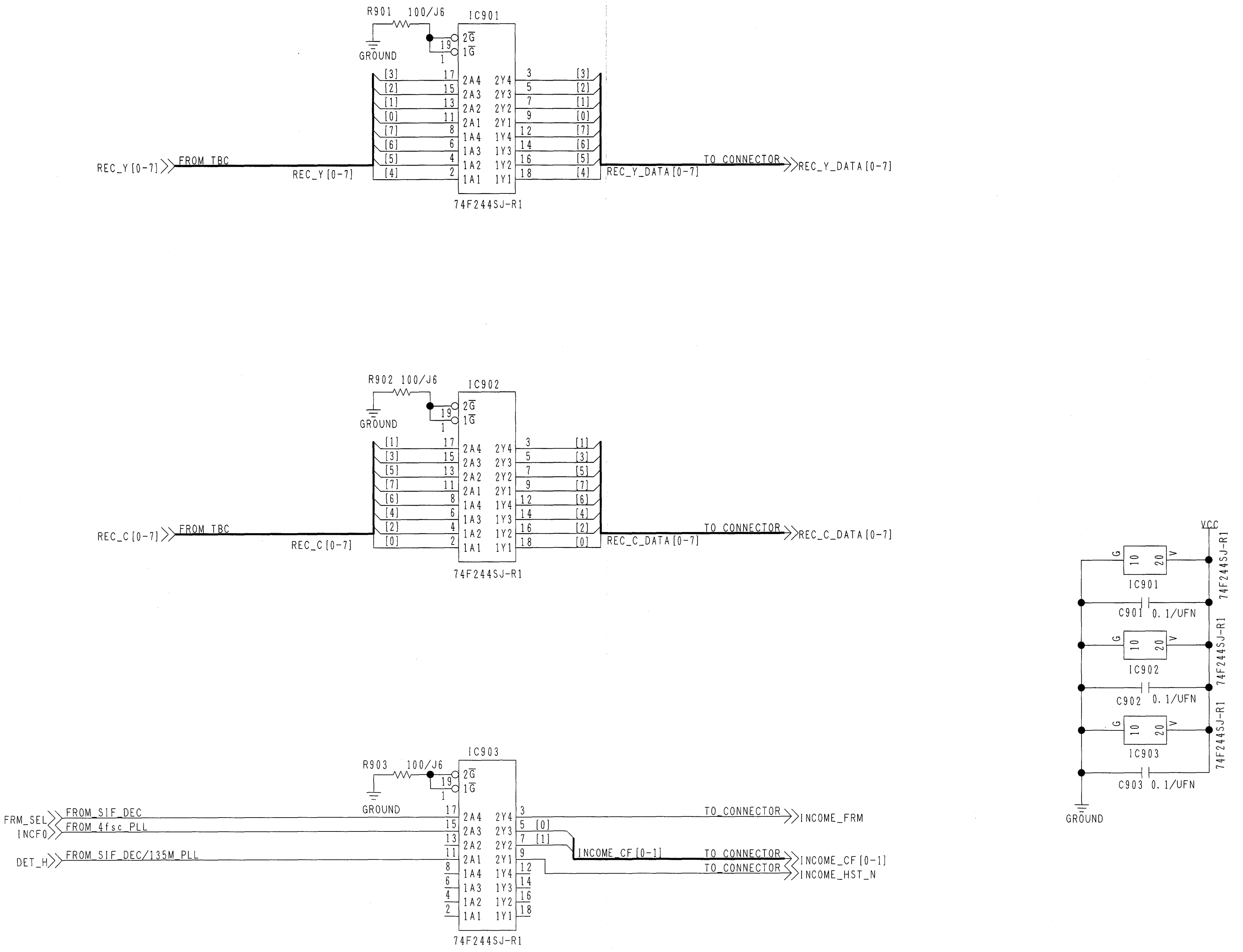
COMPONENT NAME	V IN(NTSC) 450 only	15/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(15/20)		SCM97


A12V_P
FROM_POWER
IC808
AN78N09
C816
0.1/UFN
AGROUND
IC805
NJM78L05UAT2
C821
0.1/UFN
C820
0.1/UFN
C819
6V33/EVV
FROM_135M_PLL
ADCK_PR
R831 6800/J6
C842
16V10/EVV
Q801
2SD601A-QRTX
R801 10K/J6
R826
470/J6
R802
1500/J6
FL801
VLF1295
Q802
2SB709A-QRTX
R803
470/J6
R804
1500/J6
C801
0.1/UFN
C802
6V33/EVV
C840
8P/UN
R828
560/J6
VR801
1K/VR2
CW
Q806
2SD601A-QRTX
PR_TMG
C841
47P/UN
R827
1500/J6
R829 1500/J6
R832
27K/J6
C806 0.1/UFN
C805 6V33/EVV
C809
0.1/UFN
VR803
1K/VR2
PR_LEV
IC802
AD848AR-R
R807
100/J6
R830
560/J6
C810
OPEN/UN
R825
2700/J6
C811
OPEN/UN
R808
390/J6
R809
OPEN/J6
C812
0.1/UFN
TP801
VJR0646
D801
MA152K-TX
D802
MA152K-TX
IC804
MB40568PF-TF
VCCD
VCCA
VINC
VOUTC
VCLMP
VINA
VRM
VREF
VRB
VCCA
VCCD
A.GND
AGND
D.GND
CLK
DI(M)
D2
D3
D4
D5
D6
D7
D8(L)
D.GND
TO TBC
AIN_PR[0-7]
C814
0.1/UFN
C815
0.1/UFN
PR_OFS
R814
12K/J6
VR802
5K/VR2
R813
12K/J6
R812
100/J6
Q803
2SD601A-QRTX
IC803
NJM084M-T1
C813
0.1/UFN
R811
1200/J6
R833
2700/J6
IC801
MC74HC4053FR
COMPONENT_L
FROM_SYS_IF
CMPNT_PR
FROM_M2_BCAM
CMPST_PR
FROM_C_DEM
VR804
5K/VR2
QR801
MUN2213T1
FROM_SIF_DEC
SETUP_CUT_H
C822 6V33/EVV
C823 0.1/UFN
C824 6V33/EVV
C825 0.1/UFN
VDD
VEE
VSS
IC806
NJM78L05UAT2
A75V_P
C836
0.1/UFN
C804 0.1/UFN
C803 6V33/EVV
C827 0.1/UFN
C826 16V10/EVV
R815
1K/J6
Q804
2SB709A-QRTX
R816
1K/J6
R820
1M/J6
R821
1M/J6
Q805
2SK198-RTX
R822
100/J6
R823
10K/J6
C831
0.1/UBN
C828
0.1/UBN
R817
100/J6
C829 OPEN/UN
L804
VLQ0133J821
R824
2200/J6
C832
330P/UN
C833
47P/UN
CLAMP_C
FROM_TBC
C830
16V47/EVV
R818 390K/J6
R819 270K/J6
IC807
NJM79L05UAT2
A75V_N
C837
0.1/UFN
C808 0.1/UFN
C807 6V33/EVV
C835 0.1/UFN
C834 6V33/EVV

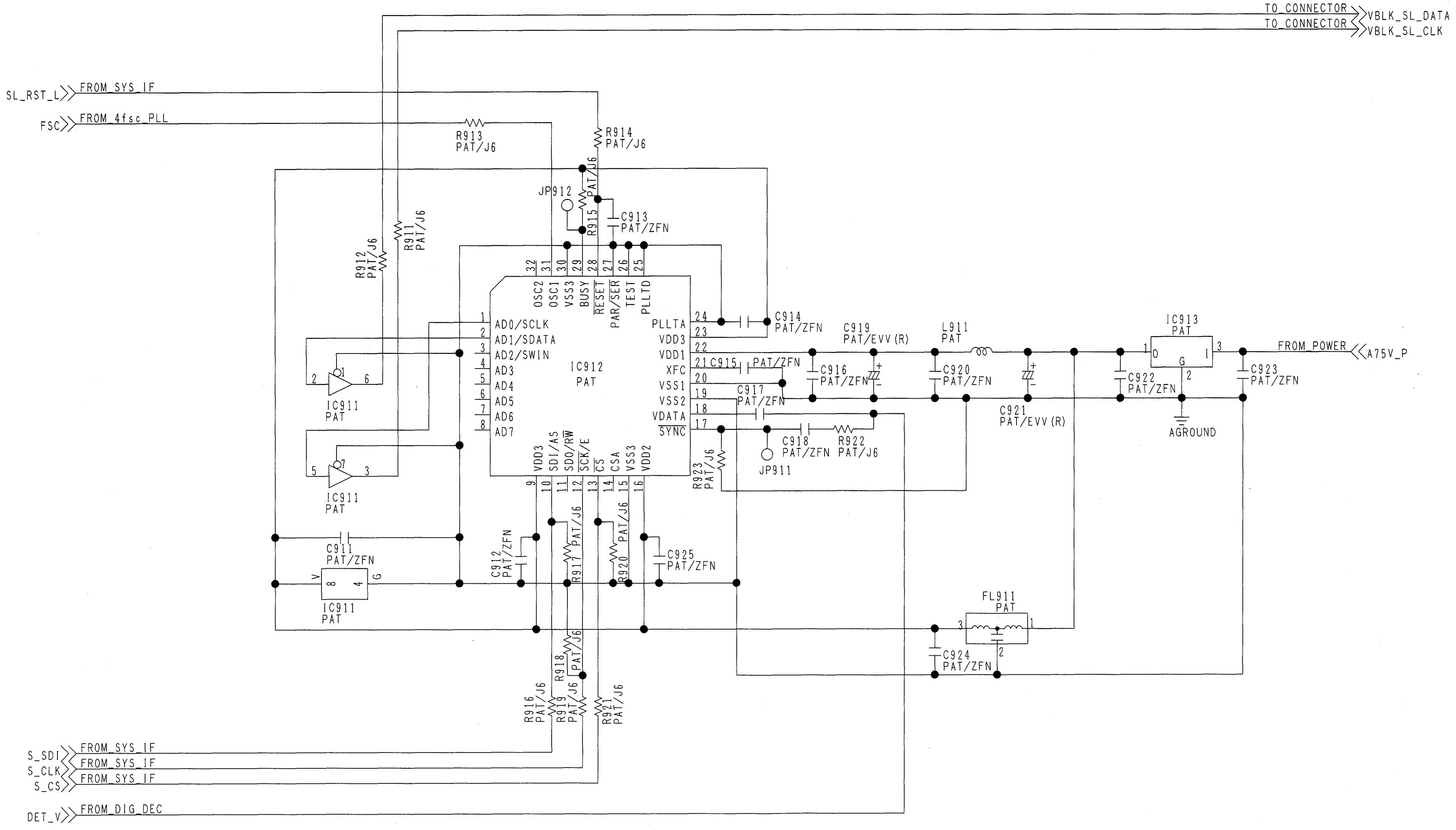
COMPONENT NAME	V IN(NTSC) 450 only	16/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(16/20)	SCM98	


TBC_Y[0-7] FROM SIF DEC,2ND AD Y
TBC_C[0-7] FROM SIF DEC,2ND AD PB
AIN_PR[0-7] FROM 2nd AD PR
CWRST TO SIF DEC
WEC_I TO SIF DEC
WEC_O FROM SIF DEC
KILL_H FROM SYS IF
VCC
FL851 VLF1016A223T
FL852 VLF1016A223T
C855 0.1/UFN
C854 0.1/UFN
C856 0.1/UFN
C851 0.1/UFN
C852 0.1/UFN
C853 0.1/UFN
C857 0.1/UFN
C858 0.1/UFN
C859 0.1/UFN
C860 0.1/UFN
R870 OPEN/J6
R875 10K/J6
R872 0/J6
R873 PAT/J6
R874 PAT/J6
R871 PAT/J6
CP851
CP852
CP853
CP854
CP855
IC851 T160G41-1437
IC852 UPD42280G3E
IC853 UPD42280G3E
GROUND
RST
TO 135M PLL PCST
TO SIF DEC/135M PLL MIDW
TO 2nd AD Y/SIF DEC CLAMP_Y
TO 2nd AD PB/2nd AD PR CLAMP_C
TO 4fsc PLL H2
FROM SIF DEC/135M PLL TBC_WV
FROM SIF DEC/135M PLL TBC_WH
FROM SYS IF SERIAL_L
FROM SIF DEC/135M PLL TBC_WCK
CDELAY[0-2] FROM SIF DEC CDELAY[0-2]
INP_LEVEL[0-4] TO SYS IF INP_LEVEL[0-4]
TO SIF DEC SIN_FRM
FROM SYS IF TBC_RH
FROM SYS IF TBC_RV
FROM SYS IF TBC_RCK
FIFO_C[0-7]
FIFO_Y[0-7]
R854 3300/J6
R855 3300/J6
R856 3300/J6
R857 3300/J6
R858 3300/J6
R859 3300/J6
R860 3300/J6
R861 3300/J6
R862 390/J6
R863 390/J6
R864 390/J6
R865 390/J6
R866 390/J6
R867 390/J6
R868 390/J6
R869 390/J6
REC_Y[0-7] TO OUTBUFF REC_Y[0-7]
REC_C[0-7] TO OUTBUFF REC_C[0-7]

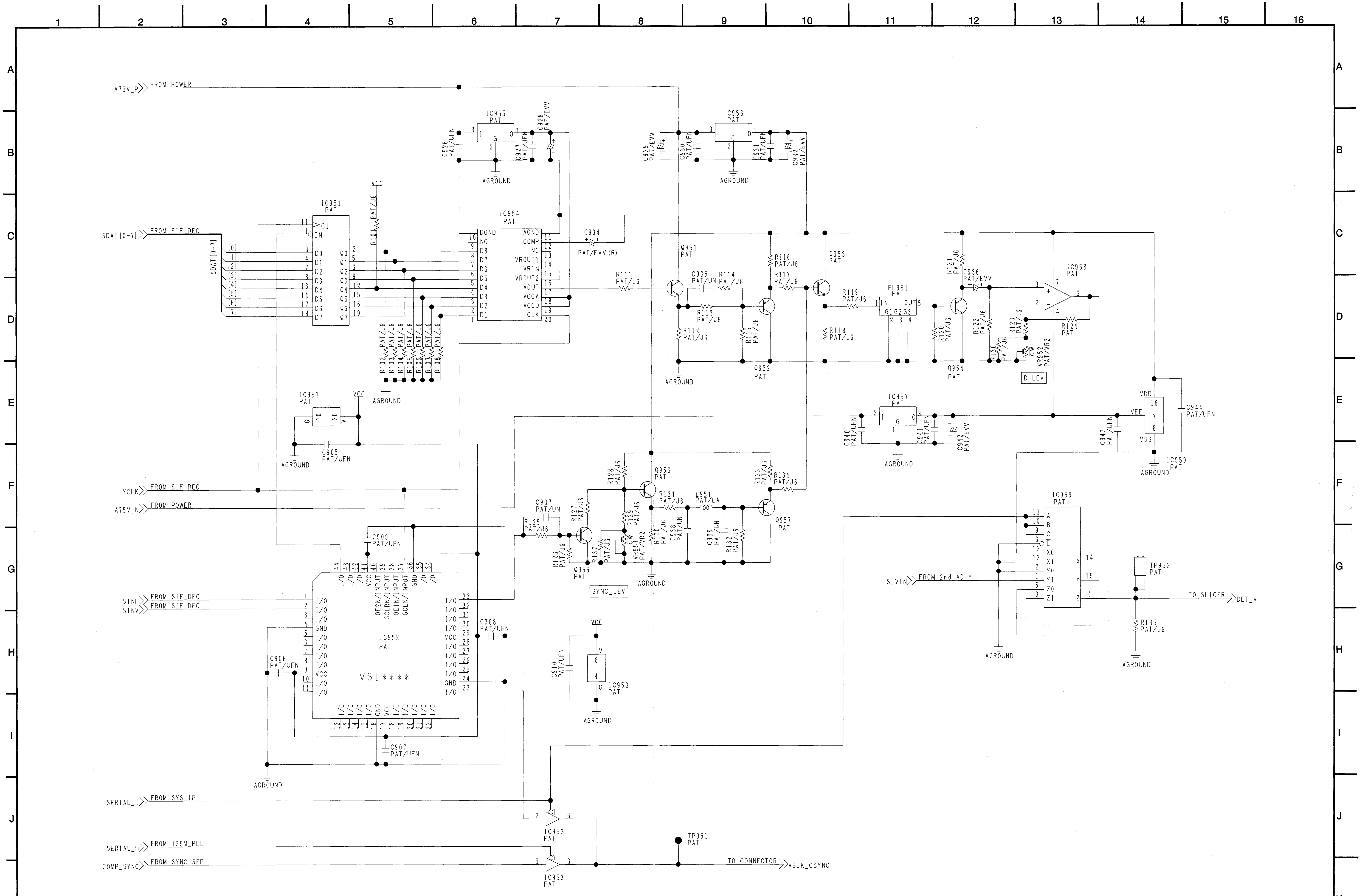
COMPONENT NAME	V IN(NTSC) 450 only	17/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(17/20)		SCM099


R901 100/J6
IC901
GROUND
2G
1G
REC_Y[0-7]
FROM TBC
REC_Y[0-7]
TO CONNECTOR
REC_Y_DATA[0-7]
REC_Y_DATA[0-7]
74F244SJ-R1
R902 100/J6
IC902
GROUND
REC_C[0-7]
FROM TBC
REC_C[0-7]
TO CONNECTOR
REC_C_DATA[0-7]
REC_C_DATA[0-7]
74F244SJ-R1
R903 100/J6
IC903
GROUND
FRM_SEL
FROM_SIF_DEC
INCF0
FROM_4fsc_PLL
DET_H
FROM_SIF_DEC/135M_PLL
TO_CONNECTOR
INCOME_FRM
INCOME_CF[0-1]
TO_CONNECTOR
INCOME_CF[0-1]
TO_CONNECTOR
INCOME_HST_N
74F244SJ-R1
VCC
IC901
C901 0.1/UFN
IC902
C902 0.1/UFN
IC903
C903 0.1/UFN
GROUND
74F244SJ-R1
74F244SJ-R1
74F244SJ-R1

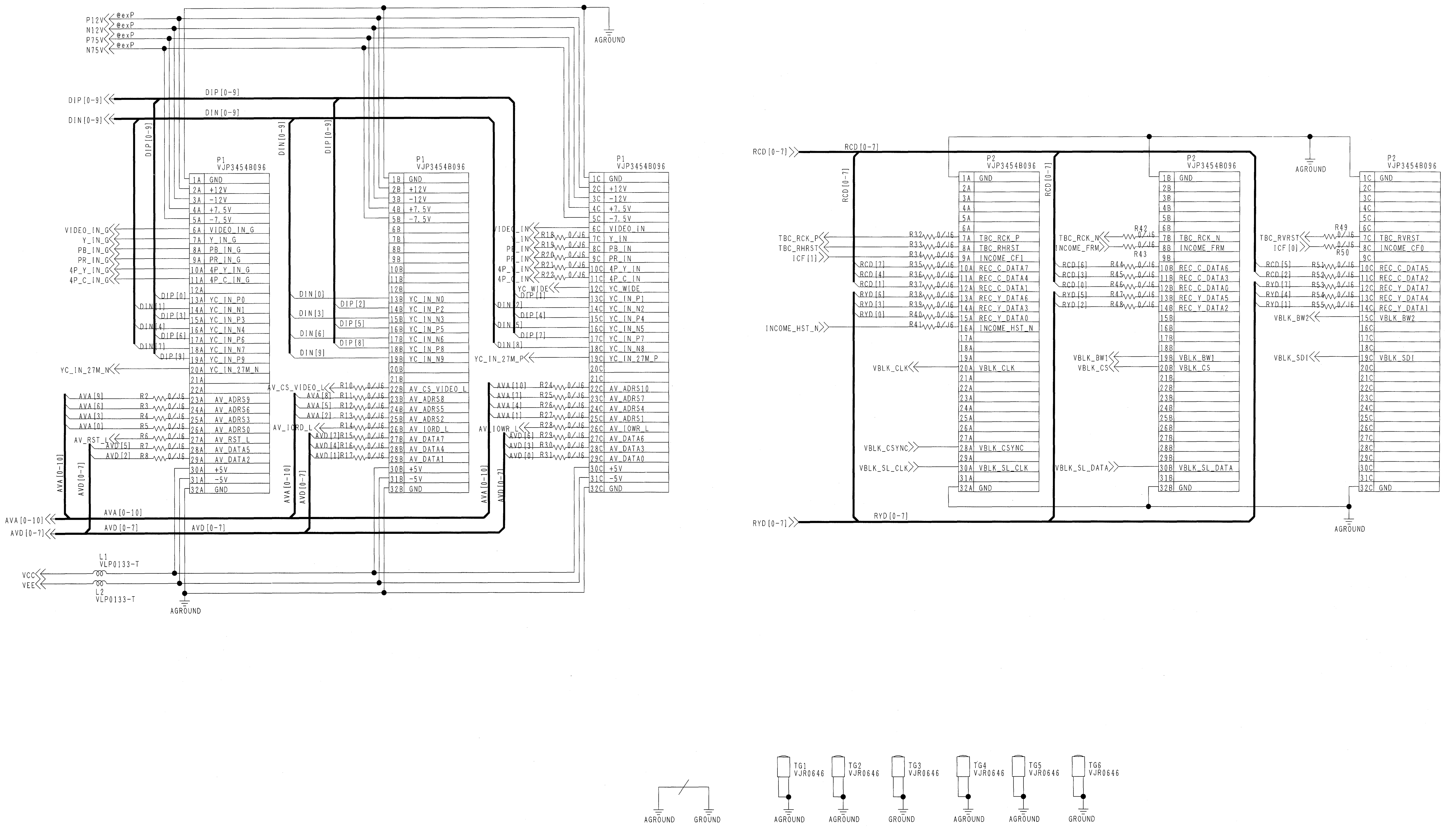
COMPONENT NAME	V IN(NTSC) 450 only	18/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(18/20)	SCM100	


TO CONNECTOR
VBLK_SL_DATA
TO CONNECTOR
VBLK_SL_CLK
SL_RST_L
FROM SYS IF
FSC
FROM 4fsc PLL
R913
PAT/J6
R914
PAT/J6
JP912
R915
PAT/J6
C913
PAT/ZFN
R912
PAT/J6
R911
PAT/J6
IC912
PAT
OSC2
OSC1
VSS3
BUSY
RESET
PAR/SER
TEST
PLLTD
AD0/SCLK
AD1/SDATA
AD2/SWIN
AD3
AD4
AD5
AD6
AD7
PLLTA
VDD3
VDD1
XFC
VSS1
VSS2
VDATA
SYNC
VDD3
SDI/AS
SDO/RW
SCK/E
CS
CSA
VSS3
VDD2
C914
PAT/ZFN
C919
PAT/EVV (R)
L911
PAT
C915
PAT/ZFN
C916
PAT/ZFN
C920
PAT/ZFN
C917
PAT/ZFN
C918
PAT/ZFN
R922
PAT/J6
JP911
R923
PAT/J6
C921
PAT/EVV (R)
IC913
PAT
C922
PAT/ZFN
C923
PAT/ZFN
AGROUND
FROM POWER
A75V_P
IC911
PAT
IC911
PAT
C911
PAT/ZFN
IC911
PAT
C912
PAT/ZFN
R917
PAT/J6
R920
PAT/J6
C925
PAT/ZFN
FL911
PAT
C924
PAT/ZFN
R918
PAT/J6
R916
PAT/J6
R919
PAT/J6
R921
PAT/J6
S_SDI
FROM SYS IF
S_CLK
FROM SYS IF
S_CS
FROM SYS IF
DET_V
FROM DIG DEC

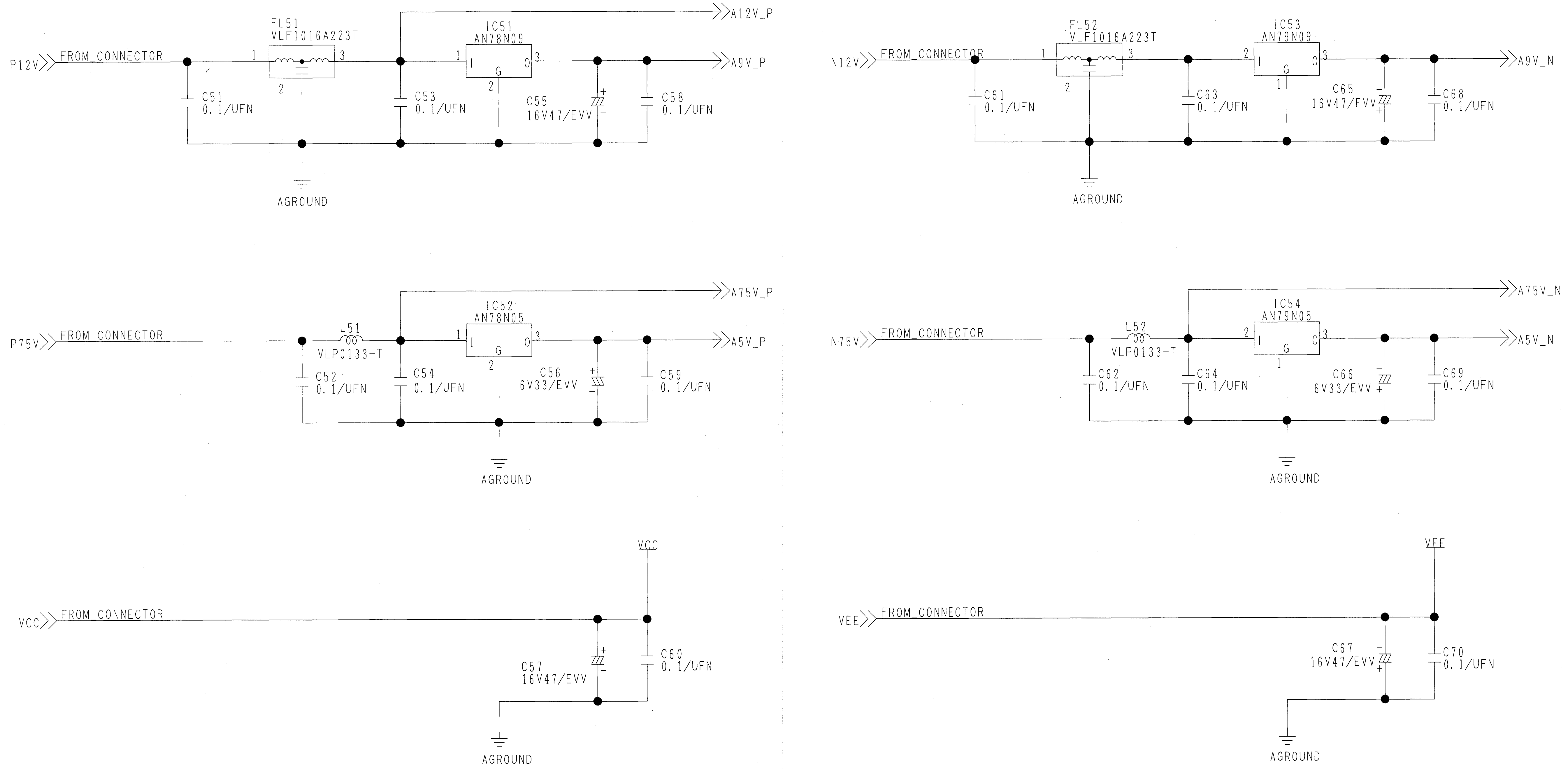
COMPONENT NAME	V IN(NTSC) 450 only	19/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(19/20)	SCM101	


A75V_P FROM POWER
SDAT[0-7] FROM SIF_DEC
YCLK FROM SIF_DEC
A75V_N FROM POWER
SINH FROM SIF_DEC
SINV FROM SIF_DEC
SERIAL_L FROM SYS_IF
SERIAL_H FROM 135M_PLL
COMP_SYNC FROM SYNC_SEP
S_VIN FROM 2nd_AD_Y
TO SLICER DET_V
TO CONNECTOR VBLK_CSYNC
IC951 PAT
IC952 PAT
VSI****
IC953 PAT
IC954 PAT
IC955 PAT
IC956 PAT
IC957 PAT
IC958 PAT
IC959 PAT
FL951 PAT
L951 PAT/LA
Q951 PAT
Q952 PAT
Q953 PAT
Q954 PAT
Q955 PAT
Q956 PAT
Q957 PAT
VR951 PAT/VR2
VR952 PAT/VR2
TP951 PAT
TP952 PAT
C934 PAT/EVV(R)
SYNC_LEV
D_LEV
AGROUND
VCC
DGND
AGND
COMP
VROUT1
VRIN
VROUT2
AOUT
VCCA
VCCD
CLK
VDD
VEE
VSS

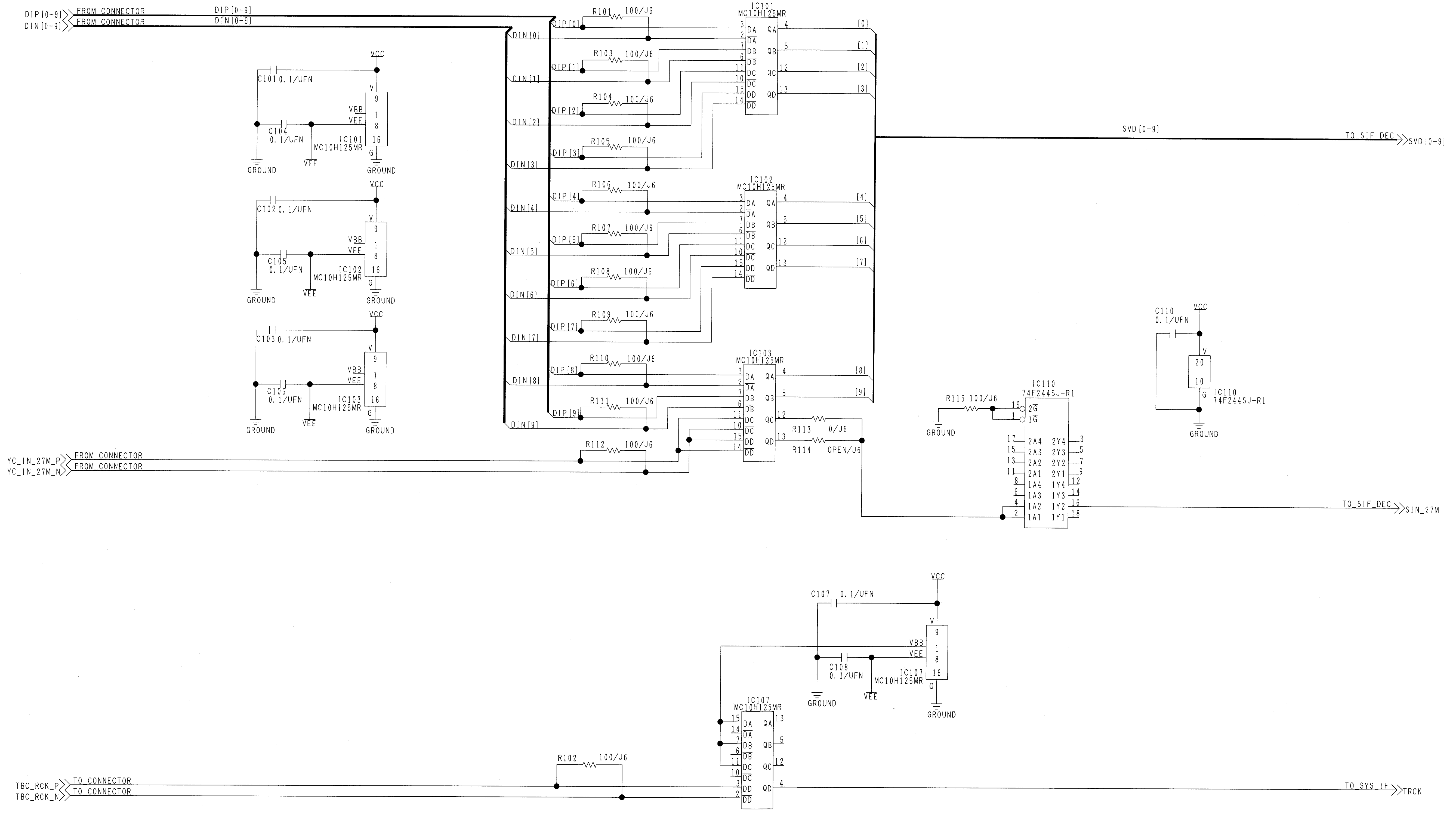
COMPONENT NAME	V IN(NTSC) 450 only	20/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83397A:JAPAN only VEP83397B:450P only		
KR3T80(20/20)		SCM102


P12V @exP
N12V @exP
P75V @exP
N75V @exP
AGROUND
DIP[0-9]
DIN[0-9]
P1
VJP3454B096
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A VIDEO_IN_G
7A Y_IN_G
8A PB_IN_G
9A PR_IN_G
10A 4P_Y_IN_G
11A 4P_C_IN_G
13A YC_IN_P0
14A YC_IN_N1
15A YC_IN_P3
16A YC_IN_N4
17A YC_IN_P6
18A YC_IN_N7
19A YC_IN_P9
20A YC_IN_27M_N
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +5V
31A -5V
32A GND
VIDEO_IN_G
Y_IN_G
PB_IN_G
PR_IN_G
4P_Y_IN_G
4P_C_IN_G
YC_IN_27M_N
AVA[9] R2 0/J6
AVA[6] R3 0/J6
AVA[3] R4 0/J6
AVA[0] R5 0/J6
AV_RST_L R6 0/J6
AVD[5] R7 0/J6
AVD[2] R8 0/J6
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
13B YC_IN_N0
14B YC_IN_P2
15B YC_IN_N3
16B YC_IN_P5
17B YC_IN_N6
18B YC_IN_P8
19B YC_IN_N9
22B AV_CS_VIDEO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +5V
31B -5V
32B GND
AV_CS_VIDEO_L R10 0/J6
AVA[8] R11 0/J6
AVA[5] R12 0/J6
AVA[2] R13 0/J6
AV_IORD_L R14 0/J6
AVD[7] R15 0/J6
AVD[4] R16 0/J6
AVD[1] R17 0/J6
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C VIDEO_IN
7C Y_IN
8C PB_IN
9C PR_IN
10C 4P_Y_IN
11C 4P_C_IN
12C YC_WIDE
13C YC_IN_P1
14C YC_IN_N2
15C YC_IN_P4
16C YC_IN_N5
17C YC_IN_P7
18C YC_IN_N8
19C YC_IN_27M_P
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +5V
31C -5V
32C GND
VIDEO_IN R18 0/J6
Y_IN R19 0/J6
PB_IN R20 0/J6
PR_IN R21 0/J6
4P_Y_IN R22 0/J6
4P_C_IN
YC_WIDE
YC_IN_27M_P
AVA[10] R24 0/J6
AVA[7] R25 0/J6
AVA[4] R26 0/J6
AVA[1] R27 0/J6
AV_IOWR_L R28 0/J6
AVD[6] R29 0/J6
AVD[3] R30 0/J6
AVD[0] R31 0/J6
AVA[0-10]
AVD[0-7]
L1 VLP0133-T
L2 VLP0133-T
VCC
VEE
RCD[0-7]
RYD[0-7]
P2
VJP3454B096
1A GND
7A TBC_RCK_P
8A TBC_RHRST
9A INCOME_CF1
10A REC_C_DATA7
11A REC_C_DATA4
12A REC_C_DATA1
13A REC_Y_DATA6
14A REC_Y_DATA3
15A REC_Y_DATA0
16A INCOME_HST_N
20A VBLK_CLK
28A VBLK_CSYNC
30A VBLK_SL_CLK
32A GND
TBC_RCK_P R32 0/J6
TBC_RHRST R33 0/J6
ICF[1] R34 0/J6
RCD[7] R35 0/J6
RCD[4] R36 0/J6
RCD[1] R37 0/J6
RYD[6] R38 0/J6
RYD[3] R39 0/J6
RYD[0] R40 0/J6
INCOME_HST_N R41 0/J6
VBLK_CLK
VBLK_CSYNC
VBLK_SL_CLK
1B GND
7B TBC_RCK_N
8B INCOME_FRM
10B REC_C_DATA6
11B REC_C_DATA3
12B REC_C_DATA0
13B REC_Y_DATA5
14B REC_Y_DATA2
19B VBLK_BW1
20B VBLK_CS
30B VBLK_SL_DATA
32B GND
TBC_RCK_N R42 0/J6
INCOME_FRM R43 0/J6
RCD[6] R44 0/J6
RCD[3] R45 0/J6
RCD[0] R46 0/J6
RYD[5] R47 0/J6
RYD[2] R48 0/J6
VBLK_BW1
VBLK_CS
VBLK_SL_DATA
1C GND
7C TBC_RVRST
8C INCOME_CF0
10C REC_C_DATA5
11C REC_C_DATA2
12C REC_Y_DATA7
13C REC_Y_DATA4
14C REC_Y_DATA1
15C VBLK_BW2
19C VBLK_SDI
32C GND
TBC_RVRST R49 0/J6
ICF[0] R50 0/J6
RCD[5] R51 0/J6
RCD[2] R52 0/J6
RYD[7] R53 0/J6
RYD[4] R54 0/J6
RYD[1] R55 0/J6
VBLK_BW2
VBLK_SDI
AGROUND
GROUND
TG1 VJR0646
TG2 VJR0646
TG3 VJR0646
TG4 VJR0646
TG5 VJR0646
TG6 VJR0646

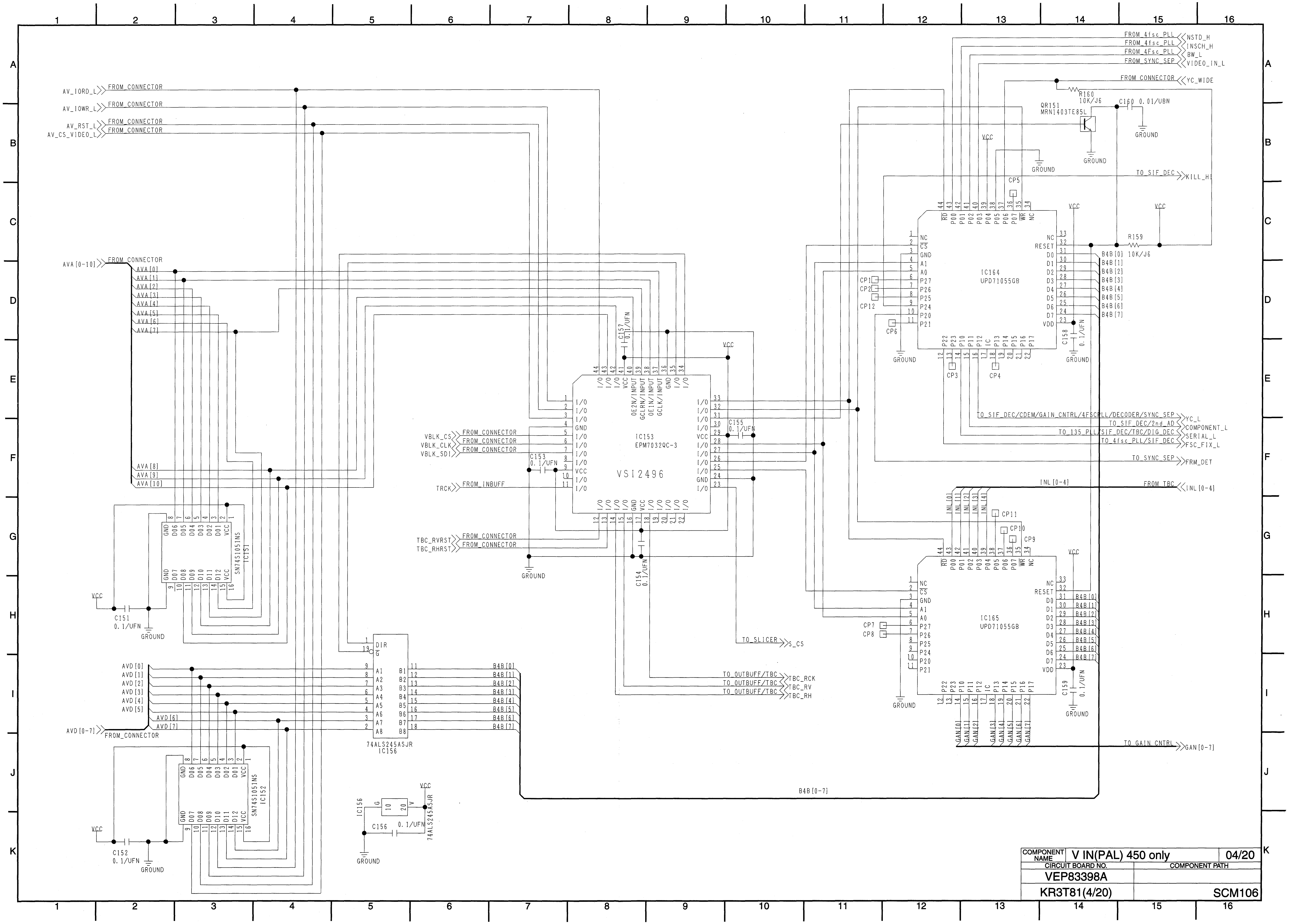
COMPONENT NAME	V IN(PAL) 450 only	01/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(1/20)	SCM103	


P12V
FROM_CONNECTOR
FL51
VLF1016A223T
1
2
3
C51
0.1/UFN
AGROUND
IC51
AN78N09
I
G
O
1
2
3
A12V_P
A9V_P
C53
0.1/UFN
C55
16V47/EVV
C58
0.1/UFN
N12V
FROM_CONNECTOR
FL52
VLF1016A223T
C61
0.1/UFN
AGROUND
IC53
AN79N09
C63
0.1/UFN
C65
16V47/EVV
C68
0.1/UFN
A9V_N
P75V
FROM_CONNECTOR
L51
VLP0133-T
C52
0.1/UFN
IC52
AN78N05
A75V_P
A5V_P
C54
0.1/UFN
C56
6V33/EVV
C59
0.1/UFN
AGROUND
N75V
FROM_CONNECTOR
L52
VLP0133-T
C62
0.1/UFN
IC54
AN79N05
A75V_N
A5V_N
C64
0.1/UFN
C66
6V33/EVV
C69
0.1/UFN
AGROUND
VCC
VCC
FROM_CONNECTOR
C57
16V47/EVV
C60
0.1/UFN
AGROUND
VEE
VEE
FROM_CONNECTOR
C67
16V47/EVV
C70
0.1/UFN
AGROUND

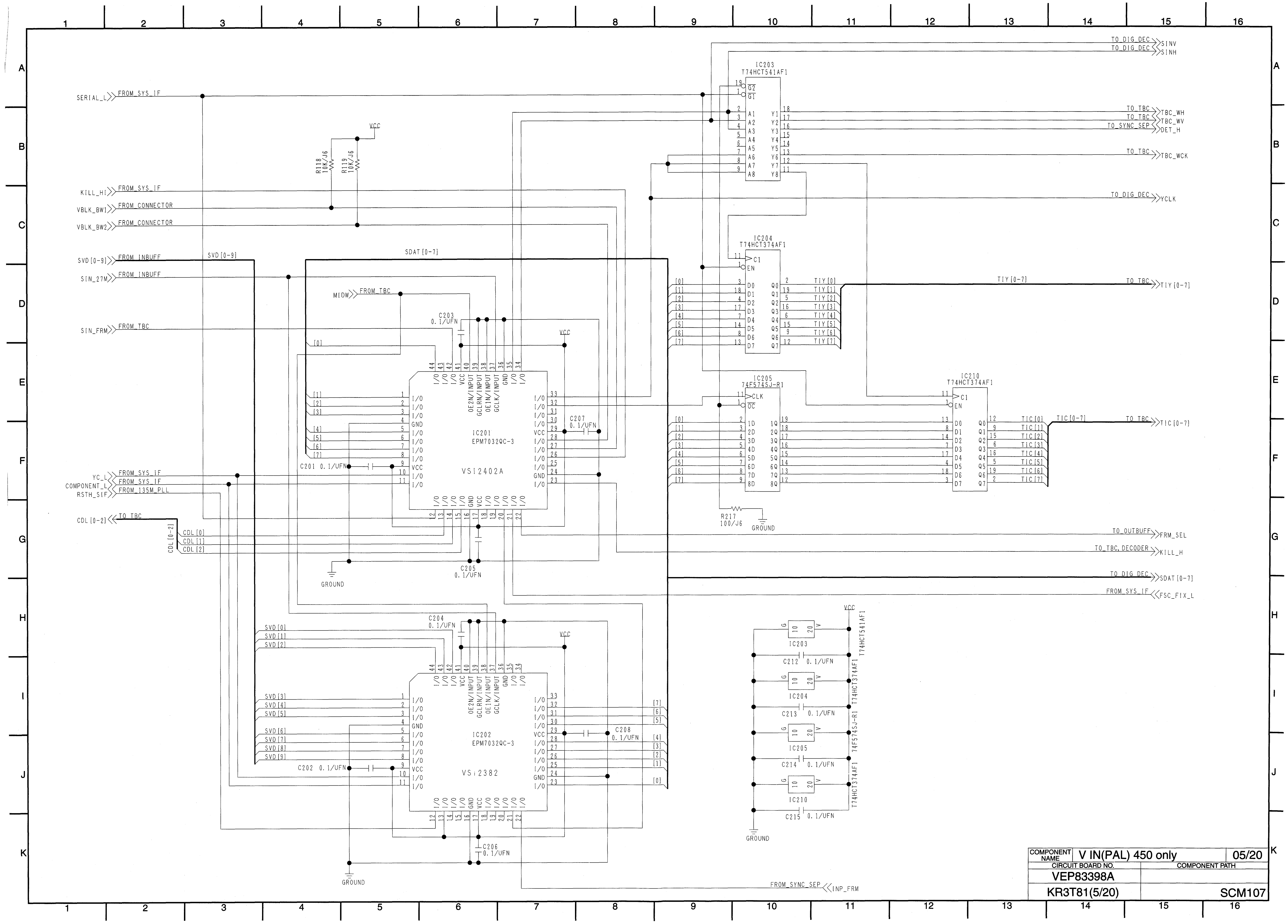
COMPONENT NAME	V IN(PAL) 450 only	02/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(2/20)	SCM104	


DIP[0-9] FROM CONNECTOR
DIN[0-9] FROM CONNECTOR
DIP[0-9]
DIN[0-9]
DIP[0] DIP[1] DIP[2] DIP[3] DIP[4] DIP[5] DIP[6] DIP[7] DIP[8] DIP[9]
DIN[0] DIN[1] DIN[2] DIN[3] DIN[4] DIN[5] DIN[6] DIN[7] DIN[8] DIN[9]
R101 100/J6
R103 100/J6
R104 100/J6
R105 100/J6
R106 100/J6
R107 100/J6
R108 100/J6
R109 100/J6
R110 100/J6
R111 100/J6
R112 100/J6
R113 0/J6
R114 OPEN/J6
R115 100/J6
R102 100/J6
IC101 MC10H125MR
IC102 MC10H125MR
IC103 MC10H125MR
IC107 MC10H125MR
IC110 74F244SJ-R1
DA DA DB DB DC DC DD DD QA QB QC QD
VCC
VBB
VEE
GROUND
C101 0.1/UFN
C102 0.1/UFN
C103 0.1/UFN
C104 0.1/UFN
C105 0.1/UFN
C106 0.1/UFN
C107 0.1/UFN
C108 0.1/UFN
C110 0.1/UFN
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9]
SVD[0-9]
TO SIF DEC SVD[0-9]
YC_IN_27M_P FROM CONNECTOR
YC_IN_27M_N FROM CONNECTOR
2G 1G
2A4 2A3 2A2 2A1 1A4 1A3 1A2 1A1
2Y4 2Y3 2Y2 2Y1 1Y4 1Y3 1Y2 1Y1
TO SIF DEC SIN_27M
TBC_RCK_P TO CONNECTOR
TBC_RCK_N TO CONNECTOR
TO SYS IF TRCK

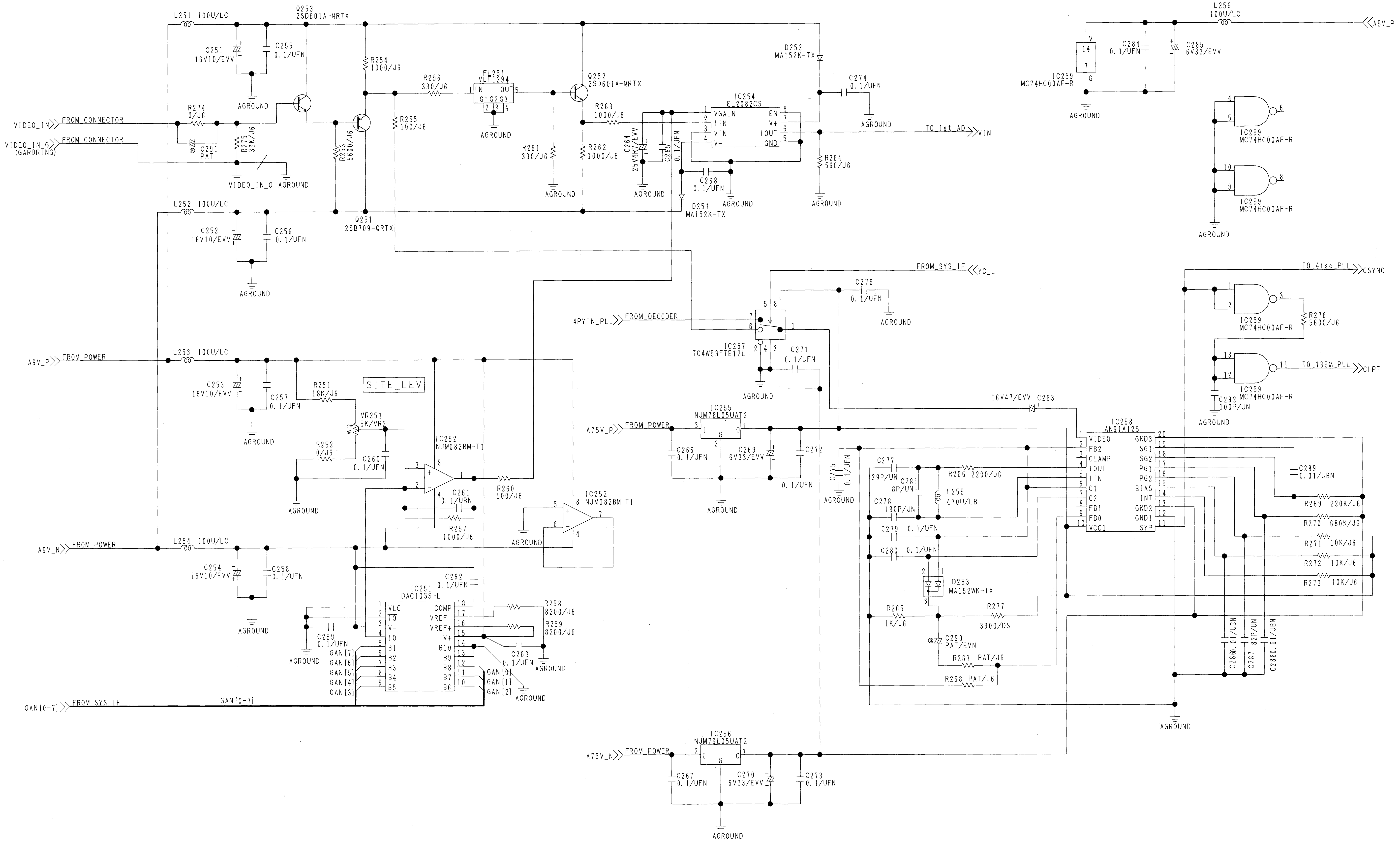
COMPONENT NAME V IN(PAL) 450 only 03/20
CIRCUIT BOARD NO. COMPONENT PATH
VEP83398A
KR3T81(3/20) SCM105


AV_IORD_L FROM CONNECTOR
AV_IOWR_L FROM CONNECTOR
AV_RST_L FROM CONNECTOR
AV_CS_VIDEO_L FROM CONNECTOR
AVA[0-10] FROM CONNECTOR
AVA[0]
AVA[1]
AVA[2]
AVA[3]
AVA[4]
AVA[5]
AVA[6]
AVA[7]
AVA[8]
AVA[9]
AVA[10]
IC151
SN74S1051NS
IC152
SN74S1051NS
C151
0.1/UFN
C152
0.1/UFN
VCC
GROUND
AVD[0]
AVD[1]
AVD[2]
AVD[3]
AVD[4]
AVD[5]
AVD[6]
AVD[7]
AVD[0-7] FROM CONNECTOR
74ALS245ASJR
IC156
DIR
B4B[0]
B4B[1]
B4B[2]
B4B[3]
B4B[4]
B4B[5]
B4B[6]
B4B[7]
B4B[0-7]
C156
0.1/UFN
VBLK_CS FROM CONNECTOR
VBLK_CLK FROM CONNECTOR
VBLK_SDI FROM CONNECTOR
TRCK FROM INBUFF
TBC_RVRST FROM CONNECTOR
TBC_RHRST FROM CONNECTOR
IC153
EPM7032QC-3
VSI2496
C153
0.1/UFN
C154
0.1/UFN
C155
0.1/UFN
C157
0.1/UFN
OE2N/INPUT
GCLRN/INPUT
OE1N/INPUT
GCLK/INPUT
TO SLICER S_CS
TO OUTBUFF/TBC TBC_RCK
TO OUTBUFF/TBC TBC_RV
TO OUTBUFF/TBC TBC_RH
FROM 4fsc PLL NSTD_H
FROM 4fsc PLL INSCH_H
FROM 4Fsc PLL BW_L
FROM SYNC SEP VIDEO_IN_L
FROM CONNECTOR YC_WIDE
R160
10K/J6
C160 0.01/UBN
QR151
MRN1403TE85L
TO SIF DEC KILL_HI
CP5
IC164
UPD71055GB
R159
10K/J6
C158
0.1/UFN
CP1
CP2
CP12
CP6
CP3
CP4
TO SIF DEC/CDEM/GAIN CNTRL/4FSCPLL/DECODER/SYNC SEP YC_L
TO SIF DEC/2nd AD COMPONENT_L
TO 135 PLL/SIF DEC/TBC/DIG DEC SERIAL_L
TO 4fsc PLL/SIF DEC FSC_FIX_L
TO SYNC SEP FRM_DET
INL[0-4]
FROM TBC INL[0-4]
CP11
CP10
CP9
IC165
UPD71055GB
CP7
CP8
C159
0.1/UFN
GAN[0]
GAN[1]
GAN[2]
GAN[3]
GAN[4]
GAN[5]
GAN[6]
GAN[7]
TO GAIN CNTRL GAN[0-7]

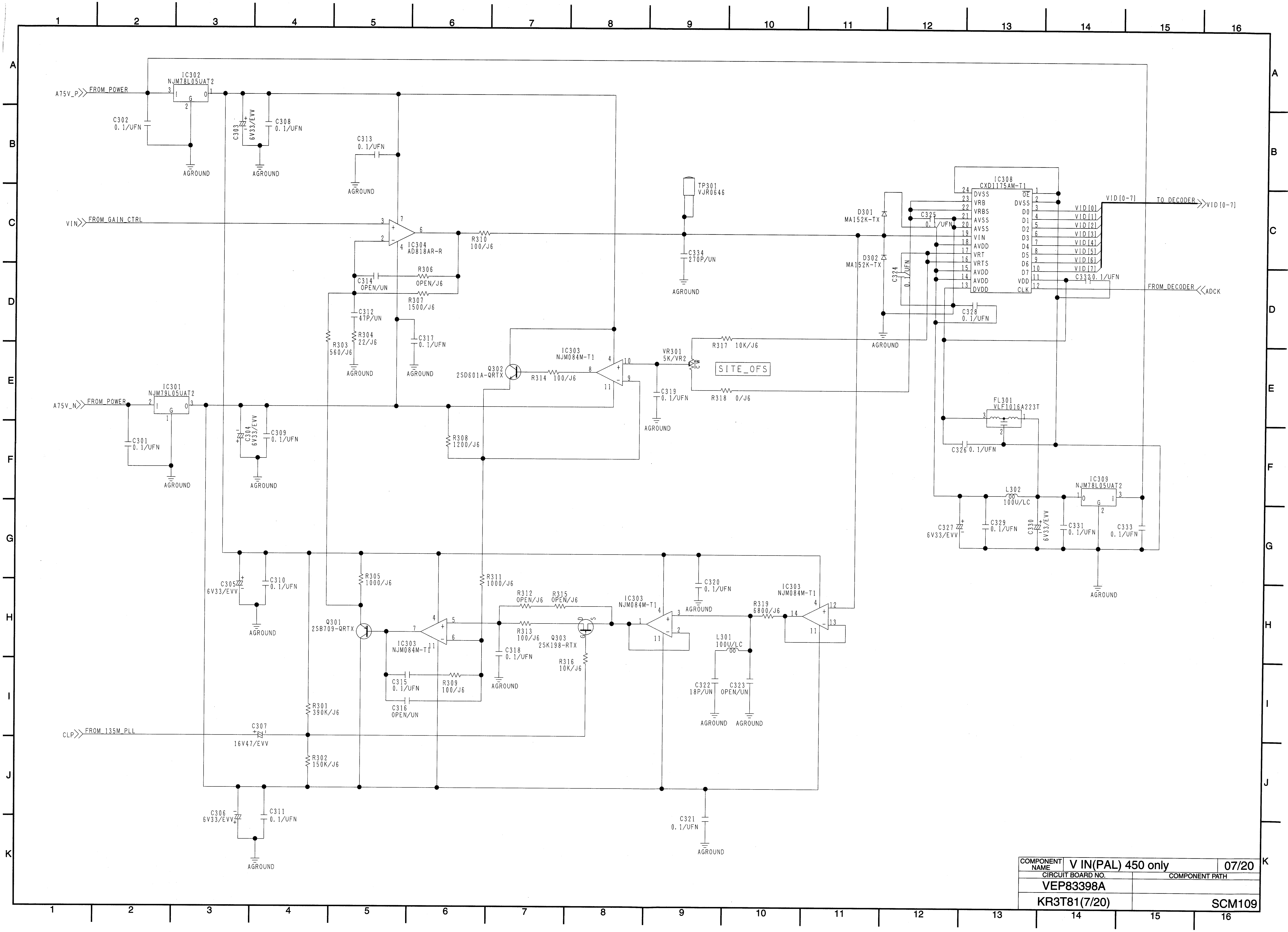
COMPONENT NAME	V IN(PAL) 450 only	04/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(4/20)		SCM106


SERIAL_L FROM_SYS_IF
KILL_HI FROM_SYS_IF
VBLK_BW1 FROM_CONNECTOR
VBLK_BW2 FROM_CONNECTOR
SVD[0-9] FROM_INBUFF
SIN_27M FROM_INBUFF
SIN_FRM FROM_TBC
MIDW FROM_TBC
YC_L FROM_SYS_IF
COMPONENT_L FROM_SYS_IF
RSTH_SIF FROM_135M_PLL
CDL[0-2] TO_TBC
SVD[0-9]
SDAT[0-7]
VCC
R118 10K/J6
R119 10K/J6
C203 0.1/UFN
C201 0.1/UFN
C205 0.1/UFN
C207 0.1/UFN
IC201
EPM7032QC-3
VS12402A
C204 0.1/UFN
C202 0.1/UFN
C206 0.1/UFN
C208 0.1/UFN
IC202
EPM7032QC-3
VS12382
OE2N/INPUT
GCLRN/INPUT
OE1N/INPUT
GCLK/INPUT
GROUND
IC203
T74HCT541AF1
IC204
T74HCT374AF1
IC205
74F574SJ-R1
IC210
T74HCT374AF1
R217 100/J6
TO_DIG_DEC SINV
TO_DIG_DEC SINH
TO_TBC TBC_WH
TO_TBC TBC_WV
TO_SYNC_SEP DET_H
TO_TBC TBC_WCK
TO_DIG_DEC YCLK
TIY[0-7]
TO_TBC TIY[0-7]
TIC[0-7]
TO_TBC TIC[0-7]
TO_OUTBUFF FRM_SEL
TO_TBC,DECODER KILL_H
TO_DIG_DEC SDAT[0-7]
FROM_SYS_IF FSC_FIX_L
FROM_SYNC_SEP INP_FRM
C212 0.1/UFN
C213 0.1/UFN
C214 0.1/UFN
C215 0.1/UFN
T74HCT541AF1
T74HCT374AF1
74F574SJ-R1
T74HCT374AF1

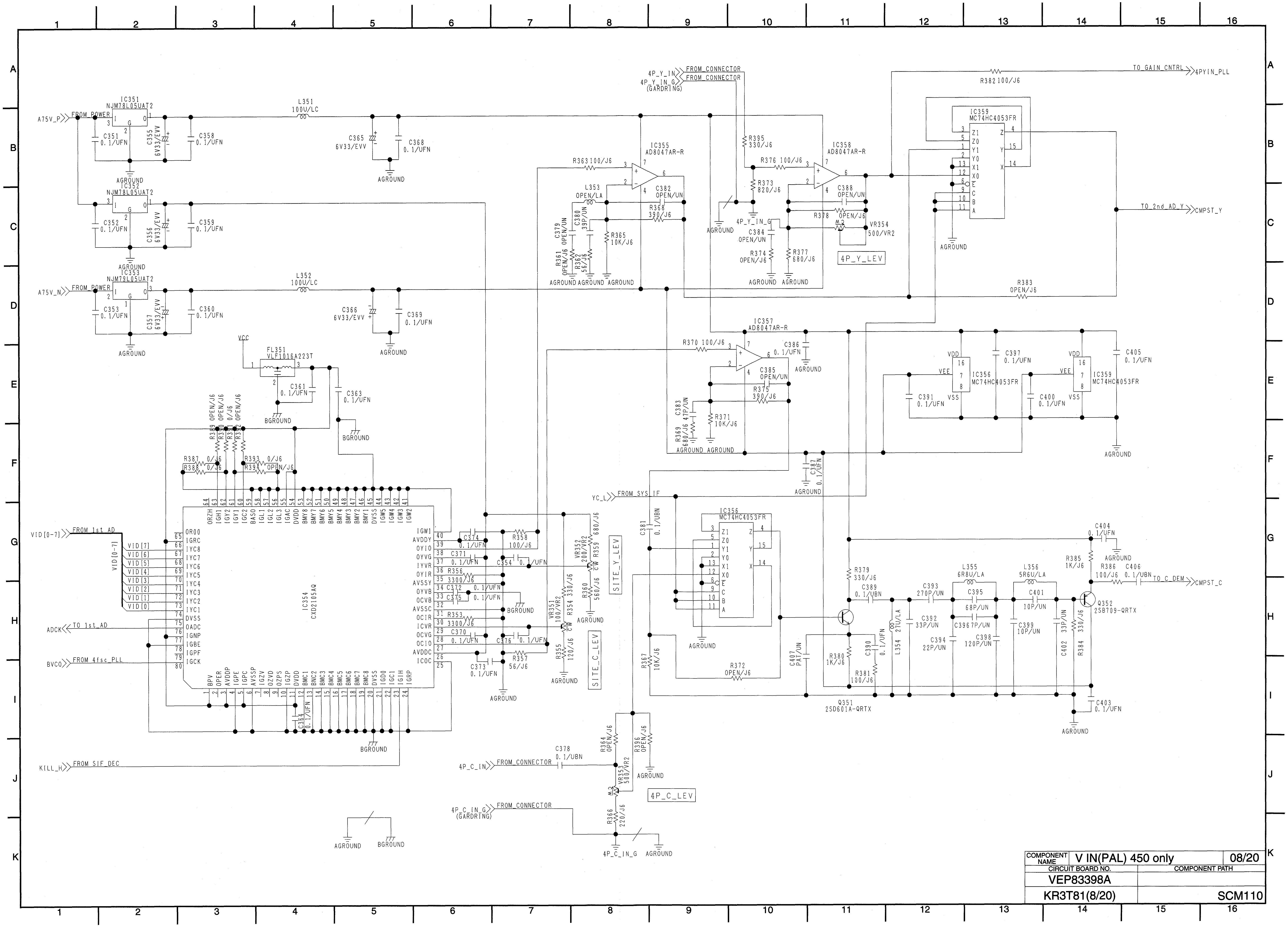
COMPONENT NAME	V IN(PAL) 450 only	05/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(5/20)	SCM107	


VIDEO_IN FROM CONNECTOR
VIDEO_IN_G (GARDRING) FROM CONNECTOR
L251 100U/LC
Q253 2SD601A-QRTX
C251 16V10/EVV
C255 0.1/UFN
R254 1000/J6
R256 330/J6
FL251 VLF1294
IN OUT G1 G2 G3
Q252 2SD601A-QRTX
R263 1000/J6
IC254 EL2082CS
VGAIN IIN VIN V- EN V+ IOUT GND
D252 MA152K-TX
C274 0.1/UFN
TO_1st_AD VIN
R274 0/J6
C291 PAT
R275 33K/J6
R253 5600/J6
R255 100/J6
R261 330/J6
R262 1000/J6
C264 25V4R7/EVV
C265 0.1/UFN
C268 0.1/UFN
R264 560/J6
D251 MA152K-TX
VIDEO_IN_G
AGROUND
L252 100U/LC
C252 16V10/EVV
C256 0.1/UFN
Q251 2SB709-QRTX
L256 100U/LC
A5V_P
C284 0.1/UFN
C285 6V33/EVV
IC259 MC74HC00AF-R
FROM_SYS_IF YC_L
C276 0.1/UFN
4PYIN_PLL FROM_DECODER
IC257 TC4W53FTE12L
C271 0.1/UFN
TO_4fsc_PLL CSYNC
R276 5600/J6
TO_135M_PLL CLPT
C292 100P/UN
A9V_P FROM_POWER
L253 100U/LC
C253 16V10/EVV
C257 0.1/UFN
SITE_LEV
R251 18K/J6
VR251 5K/VR2
R252 0/J6
C260 0.1/UFN
IC252 NJM082BM-T1
C261 0.1/UBN
R257 1000/J6
R260 100/J6
A75V_P FROM_POWER
IC255 NJM78L05UAT2
C266 0.1/UFN
C269 6V33/EVV
C272 0.1/UFN
16V47/EVV C283
IC258 AN91A12S
VIDEO FB2 CLAMP IOUT IIN C1 C2 FB1 FB0 VCC1
GND3 SG1 SG2 PG1 PG2 BIAS INT GND2 GND1 SYP
C275 0.1/UFN
C277 39P/UN
C281 8P/UN
R266 2200/J6
C278 180P/UN
L255 470U/LB
C279 0.1/UFN
C280 0.1/UFN
D253 MA152WK-TX
R265 1K/J6
R277 3900/DS
C290 PAT/EVN
R267 PAT/J6
R268 PAT/J6
C289 0.01/UBN
R269 220K/J6
R270 680K/J6
R271 10K/J6
R272 10K/J6
R273 10K/J6
C286 0.01/UBN
C287 82P/UN
C288 0.01/UBN
A9V_N FROM_POWER
L254 100U/LC
C254 16V10/EVV
C258 0.1/UFN
C262 0.1/UFN
IC251 DAC10GS-L
VLC IO V- IO B1 B2 B3 B4 B5 COMP VREF- VREF+ V+ B10 B9 B8 B7 B6
R258 8200/J6
R259 8200/J6
C259 0.1/UFN
C263 0.1/UFN
GAN[7] GAN[6] GAN[5] GAN[4] GAN[3]
GAN[0] GAN[1] GAN[2]
GAN[0-7] FROM_SYS_IF
GAN[0-7]
A75V_N FROM_POWER
IC256 NJM79L05UAT2
C267 0.1/UFN
C270 6V33/EVV
C273 0.1/UFN

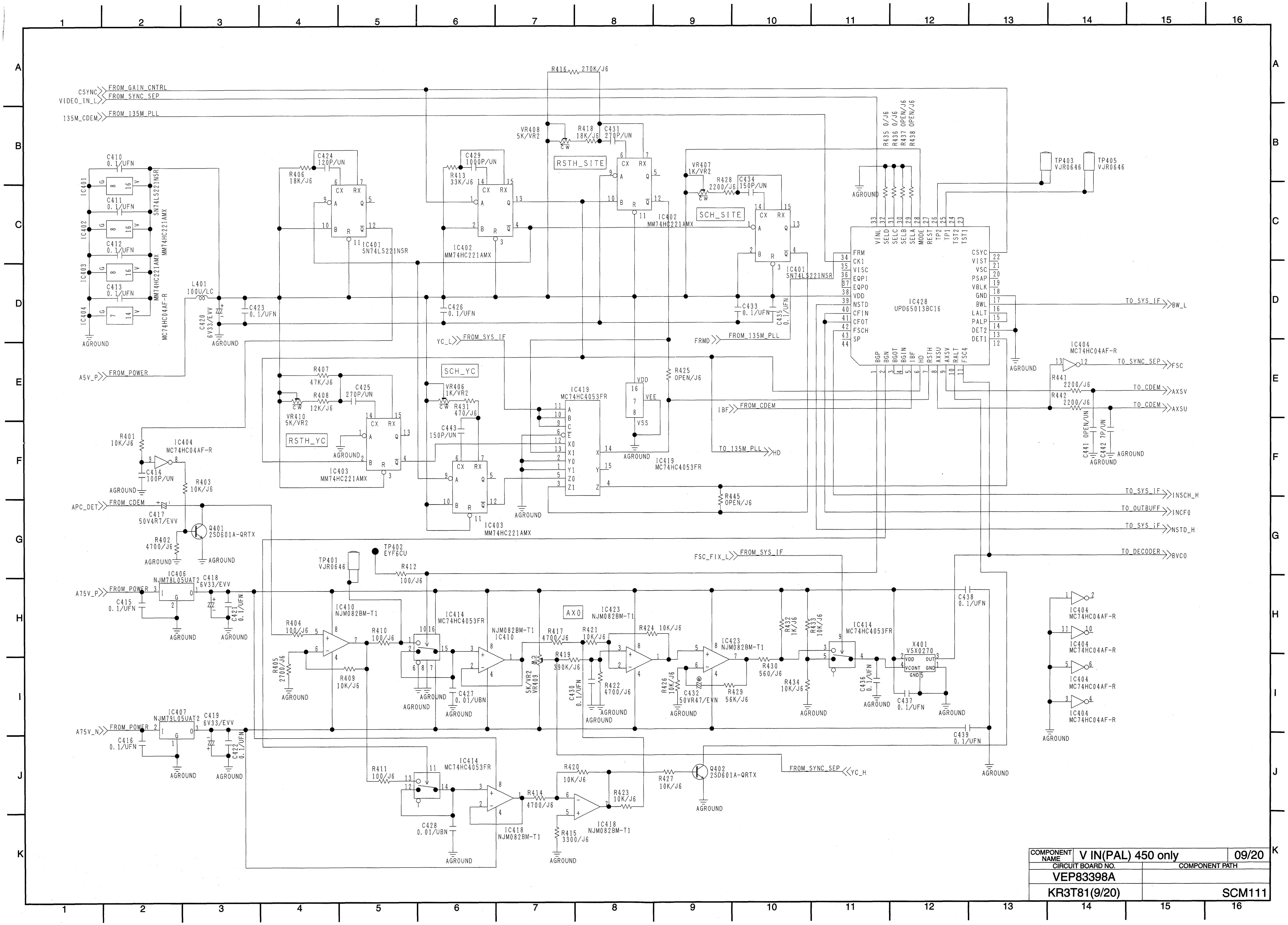
COMPONENT NAME	V IN(PAL) 450 only	06/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(6/20)		SCM108


A75V_P FROM_POWER
IC302 NJM78L05UAT2
C302 0.1/UFN
C303 6V33/EVV
C308 0.1/UFN
AGROUND
C313 0.1/UFN
VIN FROM_GAIN_CTRL
IC304 AD818AR-R
R310 100/J6
C314 OPEN/UN
R306 OPEN/J6
R307 1500/J6
C312 47P/UN
R304 22/J6
R303 560/J6
C317 0.1/UFN
TP301 VJR0646
C334 270P/UN
IC303 NJM084M-T1
Q302 2SD601A-QRTX
R314 100/J6
VR301 5K/VR2
C319 0.1/UFN
R317 10K/J6
R318 0/J6
SITE_OFS
A75V_N FROM_POWER
IC301 NJM79L05UAT2
C301 0.1/UFN
C304 6V33/EVV
C309 0.1/UFN
R308 1200/J6
IC308 CXD1175AM-T1
DVSS VRB VRBS AVSS AVSS VIN AVDD VRT VRTS AVDD AVDD DVDD
OE DVSS D0 D1 D2 D3 D4 D5 D6 D7 VDD CLK
D301 MA152K-TX
D302 MA152K-TX
C325 0.1/UFN
C324 0.1/UFN
C328 0.1/UFN
C332 0.1/UFN
VID[0-7] TO DECODER VID[0-7]
VID[0] VID[1] VID[2] VID[3] VID[4] VID[5] VID[6] VID[7]
FROM_DECODER ADCK
FL301 VLF1016A223T
C326 0.1/UFN
L302 100U/LC
IC309 NJM78L05UAT2
C327 6V33/EVV
C329 0.1/UFN
C330 6V33/EVV
C331 0.1/UFN
C333 0.1/UFN
C305 6V33/EVV
C310 0.1/UFN
R305 1000/J6
R311 1000/J6
Q301 2SB709-QRTX
C315 0.1/UFN
R309 100/J6
C316 OPEN/UN
R312 OPEN/J6
R315 OPEN/J6
R313 100/J6
Q303 2SK198-RTX
C318 0.1/UFN
R316 10K/J6
C320 0.1/UFN
R319 6800/J6
L301 100U/LC
C322 18P/UN
C323 OPEN/UN
R301 390K/J6
R302 150K/J6
CLP FROM_135M_PLL
C307 16V47/EVV
C306 6V33/EVV
C311 0.1/UFN
C321 0.1/UFN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

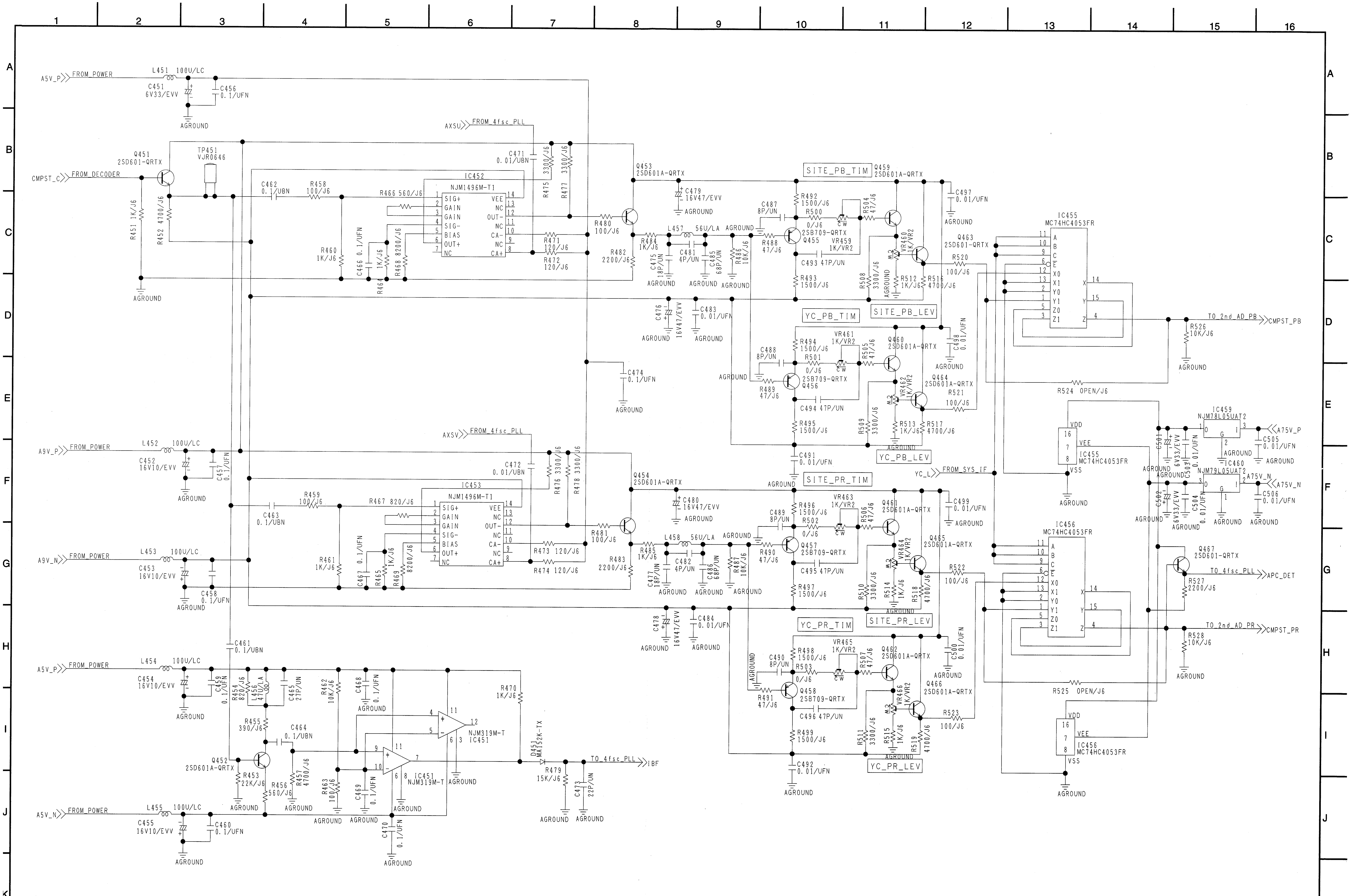
COMPONENT NAME	V IN(PAL) 450 only	07/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(7/20)		SCM109


A75V_P
FROM POWER
IC351
NJM78L05UAT2
C351 0.1/UFN
C355 6V33/EVV
C358 0.1/UFN
AGROUND
IC352
NJM78L05UAT2
C352 0.1/UFN
C356 6V33/EVV
C359 0.1/UFN
A75V_N
IC353
NJM79L05UAT2
C353 0.1/UFN
C357 6V33/EVV
C360 0.1/UFN
L351 100U/LC
C365 6V33/EVV
C368 0.1/UFN
L352 100U/LC
C366 6V33/EVV
C369 0.1/UFN
VCC
FL351
VLF1016A223T
C361 0.1/UFN
C363 0.1/UFN
BGROUND
4P_Y_IN
FROM CONNECTOR
4P_Y_IN_G (GARDRING)
IC355 AD8047AR-R
R363 100/J6
L353 OPEN/LA
C382 OPEN/UN
R368 390/J6
R365 10K/J6
C379 OPEN/UN
C380 39P/UN
R361 OPEN/J6
R362 56/J6
R395 330/J6
R376 100/J6
R373 820/J6
IC358 AD8047AR-R
C388 OPEN/UN
R378 OPEN/J6
VR354 500/VR2
4P_Y_IN_G
C384 OPEN/UN
R374 OPEN/J6
R377 680/J6
4P_Y_LEV
R382 100/J6
TO GAIN CNTRL
4PYIN_PLL
IC359 MC74HC4053FR
TO 2nd AD_Y
CMPST_Y
R383 OPEN/J6
IC357 AD8047AR-R
R370 100/J6
C386 0.1/UFN
C385 OPEN/UN
R375 390/J6
C383 47P/UN
R369 680/J6
R371 10K/J6
IC356 MC74HC4053FR
C397 0.1/UFN
C391 0.1/UFN
C405 0.1/UFN
C400 0.1/UFN
C387 0.1/UFN
VID[0-7]
FROM 1st AD
ADCK
TO 1st AD
BVCO
FROM 4fsc PLL
KILL_H
FROM SIF DEC
IC354 CXD2105AQ
R389 OPEN/J6
R390 OPEN/J6
R391 0/J6
R392 OPEN/J6
R387 0/J6
R388 0/J6
R393 0/J6
R394 OPEN/J6
C364 0.1/UFN
C374 0.1/UFN
R358 100/J6
C371 0.1/UFN
C354 0.1/UFN
R356 3300/J6
C372 0.1/UFN
C375 0.1/UFN
R353 3300/J6
C370 0.1/UFN
C376 0.1/UFN
R357 56/J6
C373 0.1/UFN
VR352 200/VR2
R359 680/J6
R360 560/J6
SITE_Y_LEV
VR351 100/VR2
R354 330/J6
R355 120/J6
SITE_C_LEV
YC_L
FROM SYS IF
C381 0.1/UBN
R367 10K/J6
R372 OPEN/J6
C407 PAT/UN
R379 330/J6
C389 0.1/UBN
R380 1K/J6
C390 0.1/UFN
R381 130/J6
Q351 2SD601A-QRTX
L354 27U/LA
C392 33P/UN
C393 270P/UN
L355 6R8U/LA
C395 68P/UN
C396 7P/UN
C394 22P/UN
C398 120P/UN
L356 5R6U/LA
C401 10P/UN
C399 10P/UN
C402 33P/UN
R384 330/J6
C403 0.1/UFN
C404 0.1/UFN
R385 1K/J6
R386 100/J6
C406 0.1/UBN
TO C DEM
CMPST_C
Q352 2SB709-QRTX
4P_C_IN
FROM CONNECTOR
C378 0.1/UBN
R364 OPEN/J6
R396 OPEN/J6
VR353 500/VR2
4P_C_LEV
4P_C_IN_G (GARDRING)
R366 220/J6
4P_C_IN_G
AGROUND
BGROUND

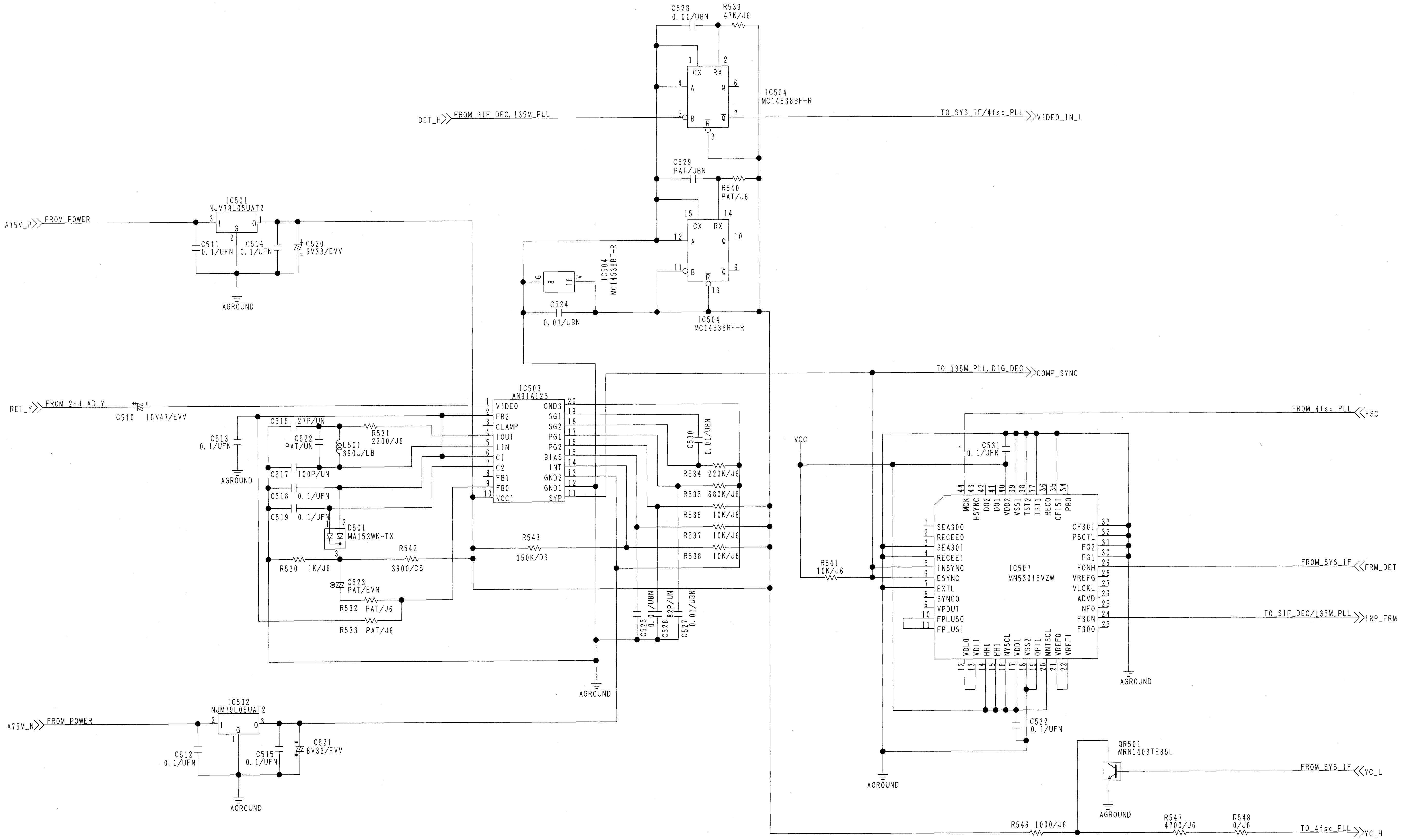
COMPONENT NAME	V IN(PAL) 450 only	08/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(8/20)		SCM110


CSYNC
FROM_GAIN_CNTRL
VIDEO_IN_L
FROM_SYNC_SEP
135M_CDEM
FROM_135M_PLL
A5V_P
FROM_POWER
APC_DET
FROM_CDEM
A75V_P
A75V_N
YC_L
FROM_SYS_IF
FRMD
IBF
FSC_FIX_L
FROM_SYNC_SEP
YC_H
TO_SYS_IF
BW_L
TO_SYNC_SEP
FSC
TO_CDEM
AXSV
AXSU
TO_135M_PLL
HD
INSCH_H
TO_OUTBUFF
INCFO
NSTD_H
TO_DECODER
BVCO
RSTH_SITE
SCH_SITE
SCH_YC
RSTH_YC
AXO
IC401 SN74LS221NSR
IC402 MM74HC221AMX
IC403 MM74HC221AMX
IC404 MC74HC04AF-R
IC406 NJM78L05UAT2
IC407 NJM79L05UAT2
IC410 NJM082BM-T1
IC414 MC74HC4053FR
IC418 NJM082BM-T1
IC419 MC74HC4053FR
IC423 NJM082BM-T1
IC428 UPD65013BC16
X401 VSX0270
Q401 2SD601A-QRTX
Q402 2SD601A-QRTX
TP401 VJR0646
TP402 EYF6CU
TP403 VJR0646
TP405 VJR0646
L401 100U/LC
VR406 1K/VR2
VR407 1K/VR2
VR408 5K/VR2
VR409 5K/VR2
VR410 5K/VR2
R401 10K/J6
R402 4700/J6
R403 10K/J6
R404 100/J6
R405 2700/J6
R406 18K/J6
R407 47K/J6
R408 12K/J6
R409 10K/J6
R410 100/J6
R411 100/J6
R412 100/J6
R413 33K/J6
R414 4700/J6
R415 3300/J6
R416 270K/J6
R417 4700/J6
R418 18K/J6
R419 390K/J6
R420 10K/J6
R421 10K/J6
R422 4700/J6
R423 10K/J6
R424 10K/J6
R425 OPEN/J6
R426 10K/J6
R427 10K/J6
R428 2200/J6
R429 56K/J6
R430 560/J6
R431 470/J6
R432 1K/J6
R433 10K/J6
R434 10K/J6
R435 0/J6
R436 0/J6
R437 OPEN/J6
R438 OPEN/J6
R441 2200/J6
R442 2200/J6
R445 OPEN/J6
C410 0.1/UFN
C411 0.1/UFN
C412 0.1/UFN
C413 0.1/UFN
C414 100P/UN
C415 0.1/UFN
C416 0.1/UFN
C417 50V4R7/EVV
C418 6V33/EVV
C419 6V33/EVV
C420 6V33/EVV
C421 0.1/UFN
C422 0.1/UFN
C423 0.1/UFN
C424 120P/UN
C425 270P/UN
C426 0.1/UFN
C427 0.01/UBN
C428 0.01/UBN
C429 1000P/UN
C430 0.1/UFN
C431 270P/UN
C432 50VR47/EVN
C433 0.1/UFN
C434 150P/UN
C435 0.1/UFN
C436 0.1/UFN
C437 0.1/UFN
C438 0.1/UFN
C439 0.1/UFN
C441 OPEN/UN
C442 7P/UN
C443 150P/UN
AGROUND
CX
RX
FRM
CK1
VISC
EQPI
EQPO
VDD
NSTD
CFIN
CFOT
FSCH
SP
VINL
SELD
SELC
SELB
SELA
MODE
REST
TP2
TP1
TST2
TST1
CSYC
VIST
VSC
PSAP
VBLK
GND
BWL
LALT
PALP
DET2
DET1
BGP
BGN
BGOT
BGIN
IBF
HD
RSTH
AXSU
AXSV
RALT
FSC4
VEE
VSS
VCONT
OUT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

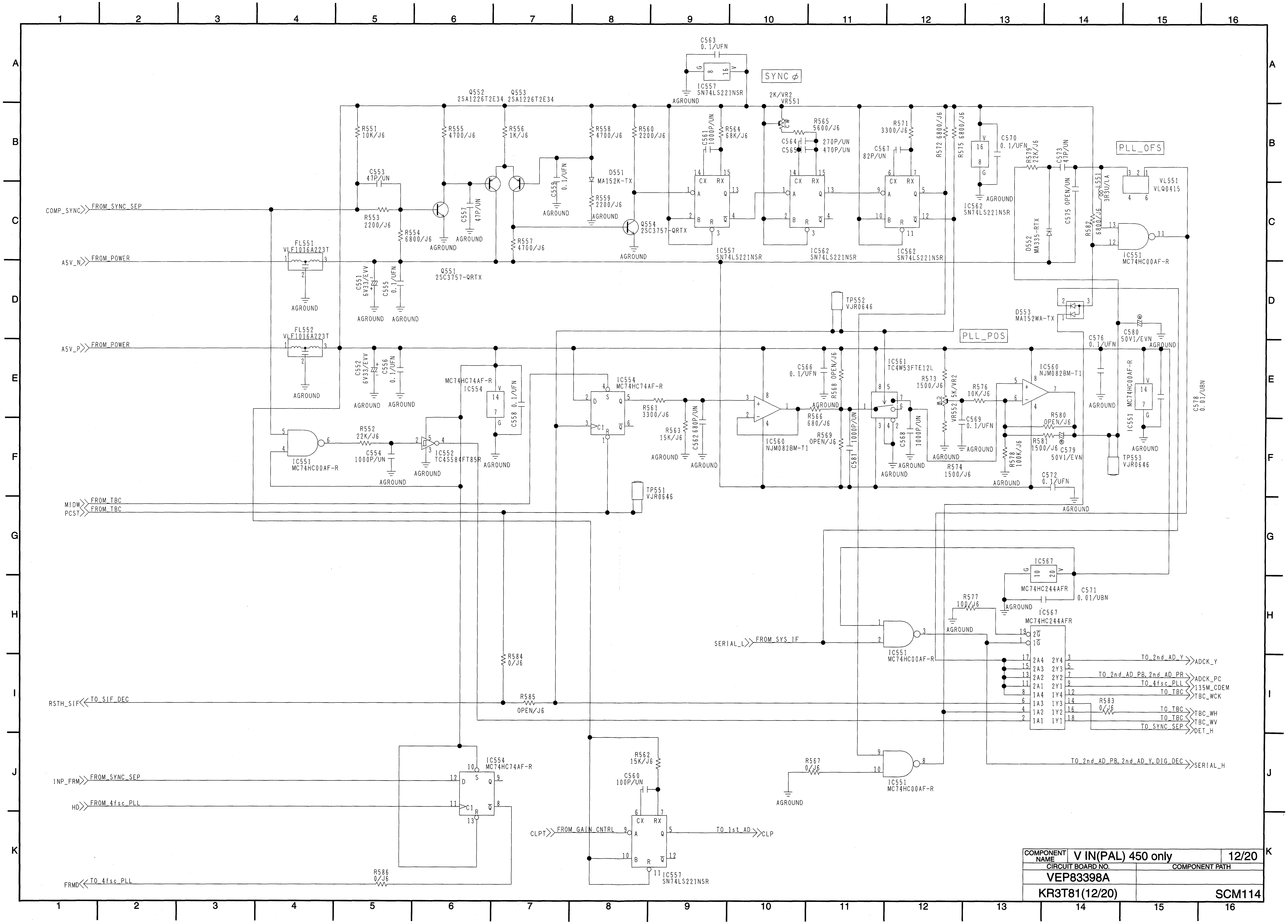
COMPONENT NAME	V IN(PAL) 450 only	09/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(9/20)	SCM111	


A5V_P FROM_POWER
L451 100U/LC
C451 6V33/EVV
C456 0.1/UFN
AGROUND
AXSU FROM_4fsc_PLL
Q451 2SD601-QRTX
TP451 VJR0646
CMPST_C FROM_DECODER
R451 1K/J6
R452 4700/J6
C462 0.1/UBN
R458 100/J6
R466 560/J6
IC452 NJM1496M-T1
SIG+ GAIN GAIN SIG- BIAS OUT+ NC VEE NC OUT- NC CA- NC CA+
C471 0.01/UBN
R475 3300/J6
R477 3300/J6
Q453 2SD601A-QRTX
R480 100/J6
R482 2200/J6
R471 120/J6
R472 120/J6
R460 1K/J6
C466 0.1/UFN
R464 1K/J6
R468 8200/J6
C479 16V47/EVV
R484 1K/J6
L457 56U/LA
C475 18P/UN
C481 4P/UN
C485 68P/UN
R486 10K/J6
SITE_PB_TIM
Q459 2SD601A-QRTX
R492 1500/J6
R500 0/J6
C487 8P/UN
R504 47/J6
R488 47/J6
2SB709-QRTX Q455
VR459 1K/VR2
C493 47P/UN
R493 1500/J6
VR460 1K/VR2
R508 3300/J6
R512 1K/J6
R516 4700/J6
Q463 2SD601-QRTX
R520 100/J6
C497 0.01/UFN
IC455 MC74HC4053FR
A B C E X0 X1 Y0 Y1 Z0 Z1 X Y Z
TO_2nd_AD_PB CMPST_PB
R526 10K/J6
C476 16V47/EVV
C483 0.01/UFN
YC_PB_TIM
SITE_PB_LEV
VR461 1K/VR2
R494 1500/J6
C488 8P/UN
R501 0/J6
R505 47/J6
Q460 2SD601A-QRTX
C498 0.01/UFN
R489 47/J6
2SB709-QRTX Q456
VR462 1K/VR2
Q464 2SD601A-QRTX
R521 100/J6
C474 0.1/UFN
R524 OPEN/J6
C494 47P/UN
R495 1500/J6
R509 3300/J6
R513 1K/J6
R517 4700/J6
YC_PB_LEV
C491 0.01/UFN
IC459 NJM78L05UAT2
A75V_P
C505 0.01/UFN
C501 6V33/EVV
C503 0.01/UFN
IC460 NJM79L05UAT2
A75V_N
C506 0.01/UFN
C502 6V33/EVV
C504 0.01/UFN
VDD VEE VSS
IC455 MC74HC4053FR
YC_L FROM_SYS_IF
A9V_P FROM_POWER
L452 100U/LC
C452 16V10/EVV
C457 0.1/UFN
AXSV FROM_4fsc_PLL
C472 0.01/UBN
R476 3300/J6
R478 3300/J6
IC453 NJM1496M-T1
R459 100/J6
R467 820/J6
C463 0.1/UBN
Q454 2SD601A-QRTX
R481 100/J6
R483 2200/J6
R473 120/J6
R474 120/J6
C480 16V47/EVV
SITE_PR_TIM
C499 0.01/UFN
R496 1500/J6
VR463 1K/VR2
C489 8P/UN
R502 0/J6
R506 47/J6
Q461 2SD601A-QRTX
Q465 2SD601A-QRTX
R485 1K/J6
L458 56U/LA
R490 47/J6
Q457 2SB709-QRTX
VR464 1K/VR2
R522 100/J6
IC456 MC74HC4053FR
Q467 2SD601-QRTX
R527 2200/J6
TO_4fsc_PLL APC_DET
A9V_N FROM_POWER
L453 100U/LC
C453 16V10/EVV
C458 0.1/UFN
R461 1K/J6
C467 0.1/UFN
R465 1K/J6
R469 8200/J6
C477 18P/UN
C482 4P/UN
C486 68P/UN
R487 10K/J6
C495 47P/UN
R497 1500/J6
R510 3300/J6
R514 1K/J6
R518 4700/J6
SITE_PR_LEV
C478 16V47/EVV
C484 0.01/UFN
YC_PR_TIM
TO_2nd_AD_PR CMPST_PR
R528 10K/J6
C461 0.1/UBN
C500 0.01/UFN
R498 1500/J6
VR465 1K/VR2
C490 8P/UN
R503 0/J6
R507 47/J6
Q462 2SD601A-QRTX
Q466 2SD601A-QRTX
R525 OPEN/J6
A5V_P FROM_POWER
L454 100U/LC
C454 16V10/EVV
C459 0.1/UFN
R454 820/J6
L456 47U/LA
C465 27P/UN
R462 10K/J6
C468 0.1/UFN
R470 1K/J6
R491 47/J6
Q458 2SB709-QRTX
VR466 1K/VR2
R523 100/J6
C496 47P/UN
R499 1500/J6
R511 3300/J6
R515 1K/J6
R519 4700/J6
YC_PR_LEV
C492 0.01/UFN
IC456 MC74HC4053FR
R455 390/J6
C464 0.1/UBN
NJM319M-T IC451
Q452 2SD601A-QRTX
R453 22K/J6
R456 560/J6
R457 4700/J6
R463 100/J6
C469 0.1/UFN
IC451 NJM319M-T
D451 MA152K-TX
R479 15K/J6
C473 22P/UN
TO_4fsc_PLL IBF
A5V_N FROM_POWER
L455 100U/LC
C455 16V10/EVV
C460 0.1/UFN
C470 0.1/UFN
CW
M3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

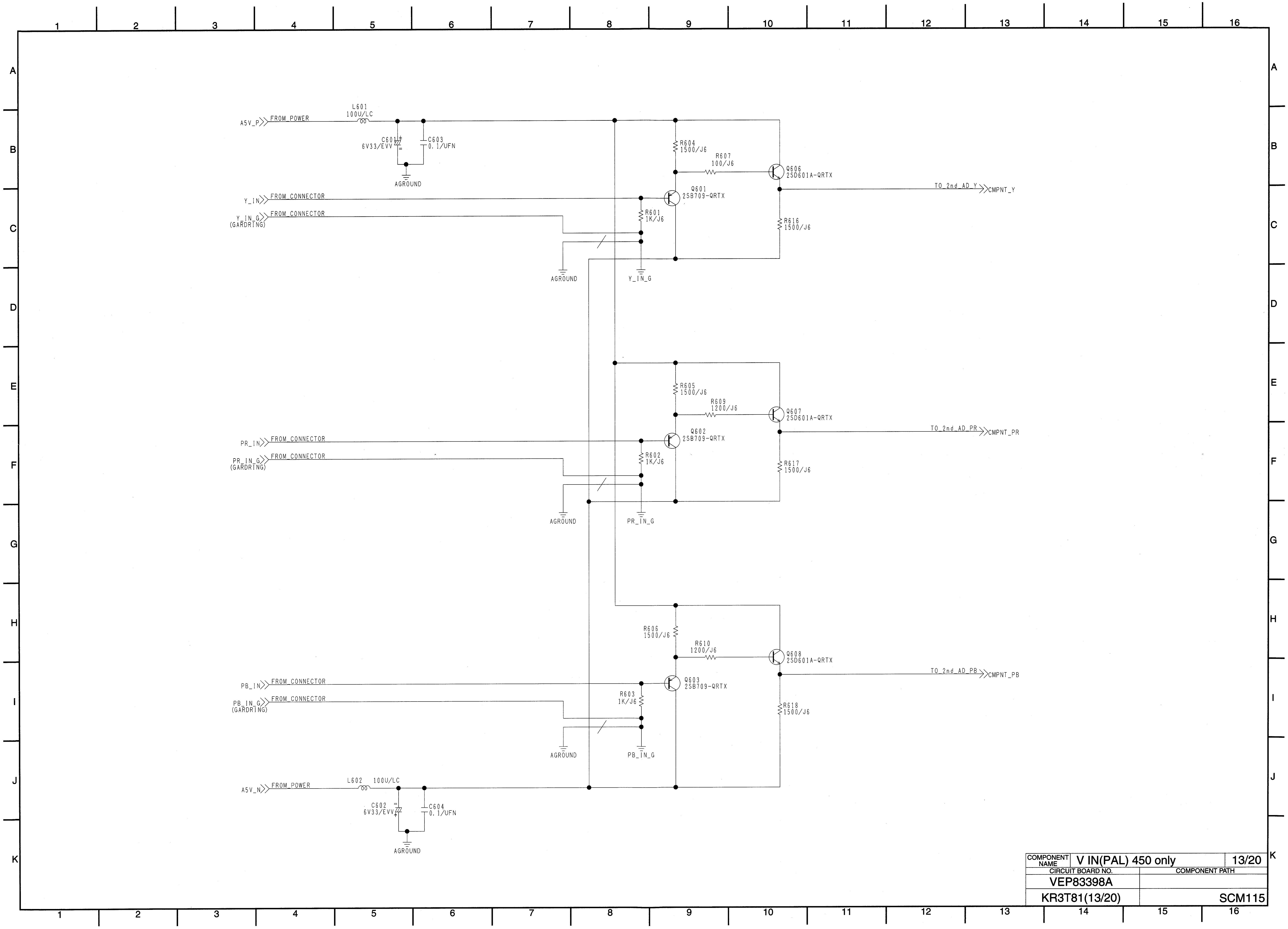
COMPONENT NAME	V IN(PAL) 450 only	10/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(10/20)	SCM112	


C528
0.01/UBN
R539
47K/J6
CX
RX
A
Q
B
IC504
MC14538BF-R
DET_H
FROM SIF DEC,135M PLL
TO SYS IF/4fsc PLL
VIDEO_IN_L
C529
PAT/UBN
R540
PAT/J6
IC504
MC14538BF-R
C524
0.01/UBN
IC504
MC14538BF-R
IC501
NJM78L05UAT2
A75V_P
FROM POWER
C511
0.1/UFN
C514
0.1/UFN
C520
6V33/EVV
AGROUND
TO 135M PLL,DIG DEC
COMP_SYNC
IC503
AN91A12S
VIDEO
FB2
CLAMP
IOUT
IIN
C1
C2
FB1
FB0
VCC1
GND3
SG1
SG2
PG1
PG2
BIAS
INT
GND2
GND1
SYP
RET_Y
FROM 2nd AD Y
C510
16V47/EVV
C513
0.1/UFN
C516
27P/UN
C522
PAT/UN
R531
2200/J6
L501
390U/LB
C517
100P/UN
C518
0.1/UFN
C519
0.1/UFN
D501
MA152WK-TX
R542
3900/DS
R530
1K/J6
C523
PAT/EVN
R532
PAT/J6
R533
PAT/J6
R543
150K/DS
C530
0.01/UBN
R534
220K/J6
R535
680K/J6
R536
10K/J6
R537
10K/J6
R538
10K/J6
C525
0.01/UBN
C526
82P/UN
C527
0.01/UBN
AGROUND
VCC
FROM 4fsc PLL
FSC
C531
0.1/UFN
MCK
HSYNC
DO2
DO1
VDD2
VSS1
TST2
TST1
RECO
CF151
PBO
SEA300
RECEE0
SEA301
RECEE1
INSYNC
ESYNC
EXTL
SYNCO
VPOUT
FPLUSO
FPLUSI
IC507
MN53015VZW
CF301
PSCTL
FG2
FG1
FONH
VREFG
VLCKL
ADVD
NFO
F30N
F300
VDLO
VDLI
HHO
HH1
NYSCL
VDD1
VSS2
OPT1
MNTSCL
VREFO
VREFI
R541
10K/J6
FROM SYS IF
FRM_DET
TO SIF DEC/135M PLL
INP_FRM
AGROUND
C532
0.1/UFN
AGROUND
IC502
NJM79L05UAT2
A75V_N
FROM POWER
C512
0.1/UFN
C515
0.1/UFN
C521
6V33/EVV
AGROUND
QR501
MRN1403TE85L
FROM SYS IF
YC_L
AGROUND
R546 1000/J6
R547
4700/J6
R548
0/J6
TO 4fsc PLL
YC_H

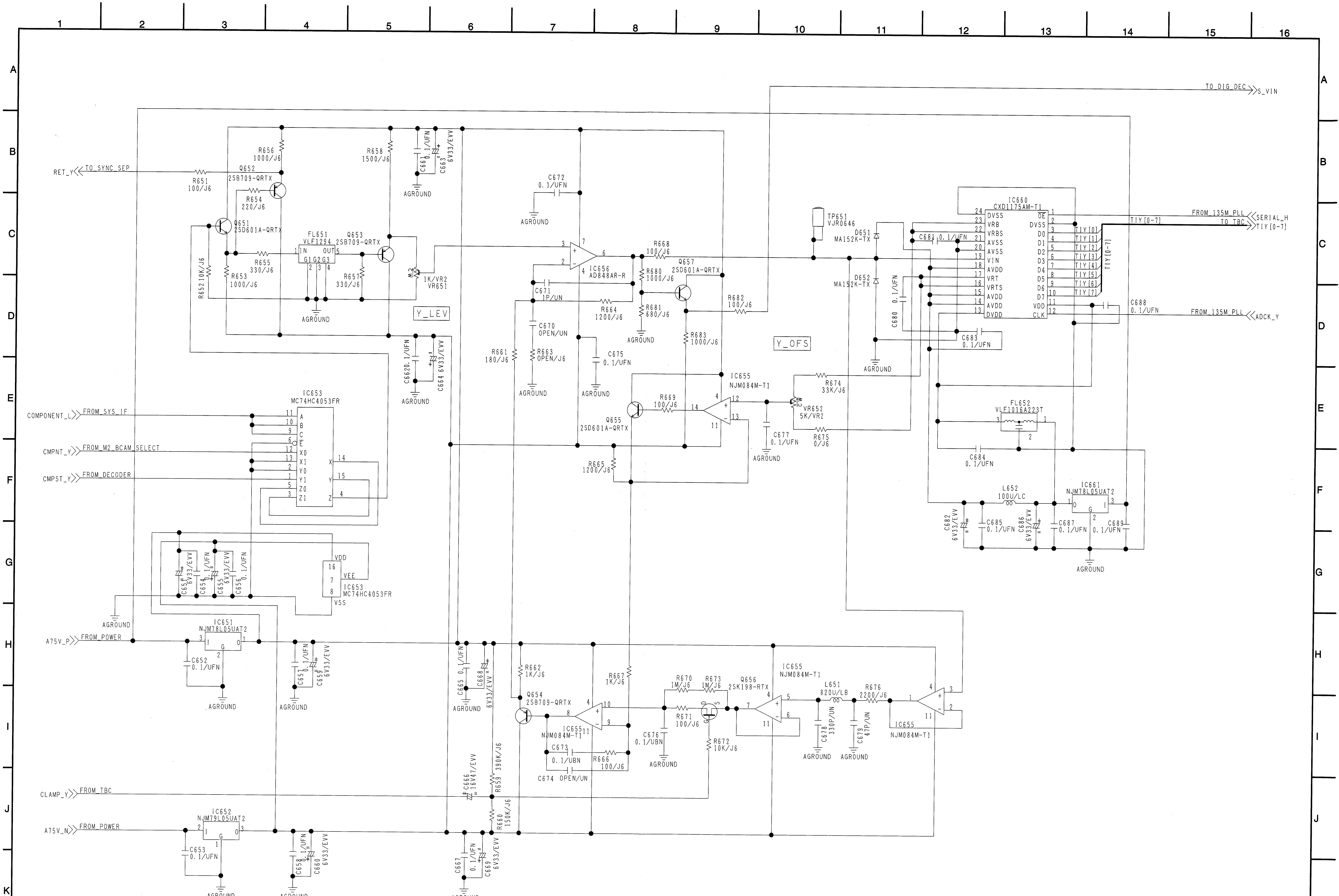
COMPONENT NAME	V IN(PAL) 450 only	11/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(11/20)	SCM113	


SYNC ϕ
PLL_OFS
PLL_POS
COMP_SYNC FROM_SYNC_SEP
A5V_N FROM_POWER
A5V_P FROM_POWER
MIDW FROM_TBC
PCST FROM_TBC
RSTH_SIF TO_SIF_DEC
INP_FRM FROM_SYNC_SEP
HD FROM_4fsc_PLL
FRMD TO_4fsc_PLL
CLPT FROM_GAIN_CNTRL
TO_1st_AD CLP
SERIAL_L FROM_SYS_IF
TO_2nd_AD_Y ADCK_Y
TO_2nd_AD_PB,2nd_AD_PR ADCK_PC
TO_4fsc_PLL 135M_CDEM
TO_TBC TBC_WCK
TO_TBC TBC_WH
TO_TBC TBC_WV
TO_SYNC_SEP DET_H
TO_2nd_AD_PB,2nd_AD_Y,DIG_DEC SERIAL_H
FL551 VLF1016A223T
FL552 VLF1016A223T
Q551 2SC3757-QRTX
Q552 2SA1226T2E34
Q553 2SA1226T2E34
Q554 2SC3757-QRTX
D551 MA152K-TX
D552 MA335-RTX
D553 MA152WA-TX
IC551 MC74HC00AF-R
IC552 TC4S584FT85R
IC554 MC74HC74AF-R
IC557 SN74LS221NSR
IC560 NJM082BM-T1
IC561 TC4W53FTE12L
IC562 SN74LS221NSR
IC567 MC74HC244AFR
VL551 VLQ0415
L551 3R3U/LA
VR551 2K/VR2
VR552 5K/VR2
TP551 VJR0646
TP552 VJR0646
TP553 VJR0646
R551 10K/J6
R552 22K/J6
R553 2200/J6
R554 6800/J6
R555 4700/J6
R556 1K/J6
R557 4700/J6
R558 4700/J6
R559 2200/J6
R560 2200/J6
R561 3300/J6
R562 15K/J6
R563 15K/J6
R564 68K/J6
R565 5600/J6
R566 680/J6
R567 0/J6
R568 OPEN/J6
R569 OPEN/J6
R571 3300/J6
R572 6800/J6
R573 1500/J6
R574 1500/J6
R575 6800/J6
R576 10K/J6
R577 100/J6
R578 100K/J6
R579 22K/J6
R580 OPEN/J6
R581 1500/J6
R582 6800/J6
R583 0/J6
R584 0/J6
R585 OPEN/J6
R586 0/J6
C551 6V33/EVV
C552 6V33/EVV
C553 47P/UN
C554 1000P/UN
C555 0.1/UFN
C556 0.1/UFN
C557 47P/UN
C558 0.1/UFN
C559 0.1/UFN
C560 100P/UN
C561 1000P/UN
C562 680P/UN
C563 0.1/UFN
C564 270P/UN
C565 470P/UN
C566 0.1/UFN
C567 82P/UN
C568 1000P/UN
C569 0.1/UFN
C570 0.1/UFN
C571 0.01/UBN
C572 0.1/UFN
C573 47P/UN
C575 OPEN/UN
C576 0.1/UFN
C578 0.01/UBN
C579 50V1/EVN
C580 50V1/EVN
C581 1000P/UN
AGROUND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

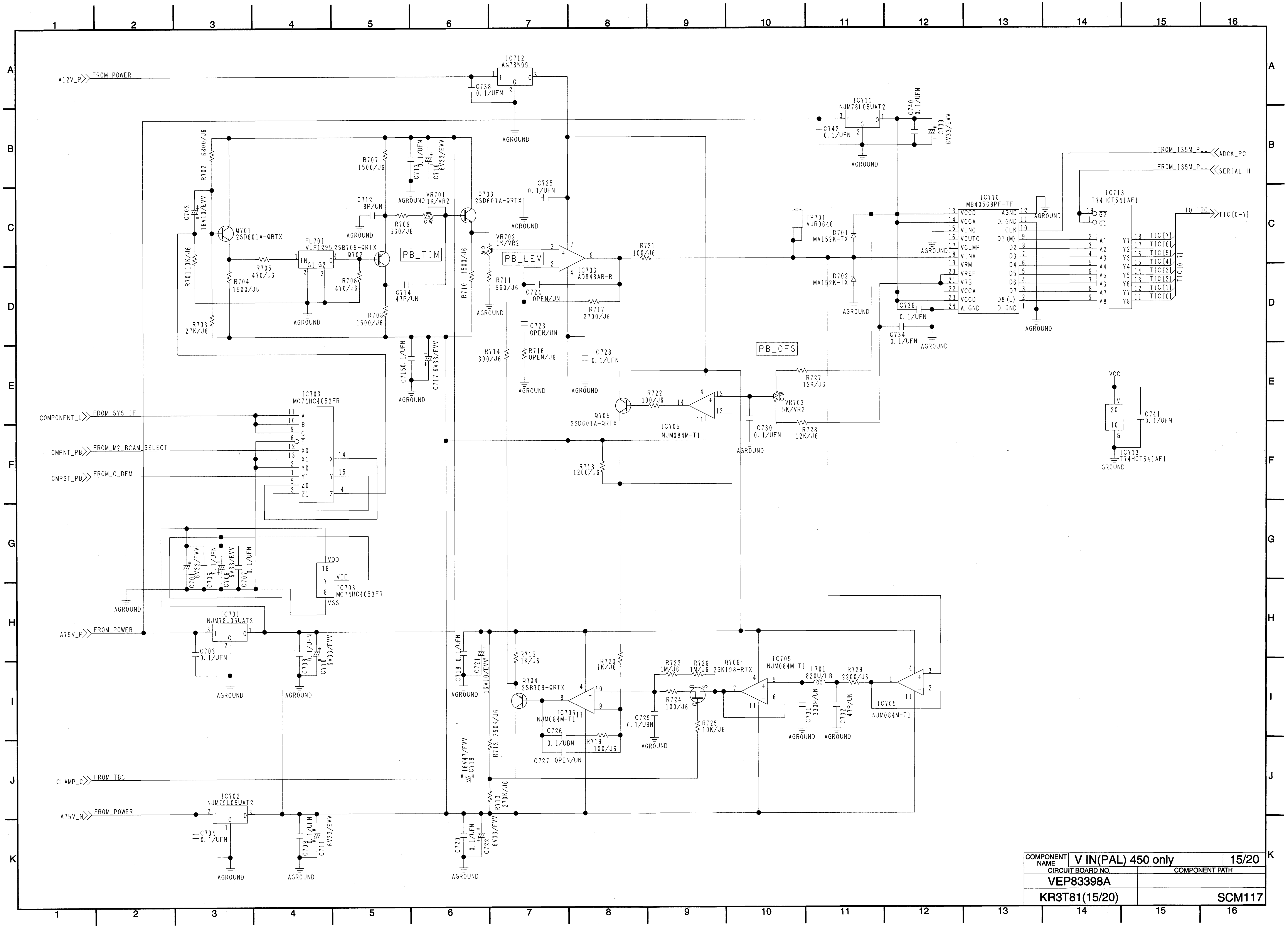
COMPONENT NAME	V IN(PAL) 450 only	12/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(12/20)		SCM114


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
A5V_P
FROM_POWER
L601
100U/LC
C601
6V33/EVV
C603
0.1/UFN
AGROUND
R604
1500/J6
R607
100/J6
Q606
2SD601A-QRTX
TO_2nd_AD_Y
CMPNT_Y
Y_IN
FROM_CONNECTOR
Q601
2SB709-QRTX
Y_IN_G
(GARDRING)
FROM_CONNECTOR
R601
1K/J6
R616
1500/J6
AGROUND
Y_IN_G
R605
1500/J6
R609
1200/J6
Q607
2SD601A-QRTX
TO_2nd_AD_PR
CMPNT_PR
PR_IN
FROM_CONNECTOR
Q602
2SB709-QRTX
PR_IN_G
(GARDRING)
FROM_CONNECTOR
R602
1K/J6
R617
1500/J6
AGROUND
PR_IN_G
R606
1500/J6
R610
1200/J6
Q608
2SD601A-QRTX
TO_2nd_AD_PB
CMPNT_PB
PB_IN
FROM_CONNECTOR
Q603
2SB709-QRTX
PB_IN_G
(GARDRING)
FROM_CONNECTOR
R603
1K/J6
R618
1500/J6
AGROUND
PB_IN_G
A5V_N
FROM_POWER
L602
100U/LC
C602
6V33/EVV
C604
0.1/UFN
AGROUND

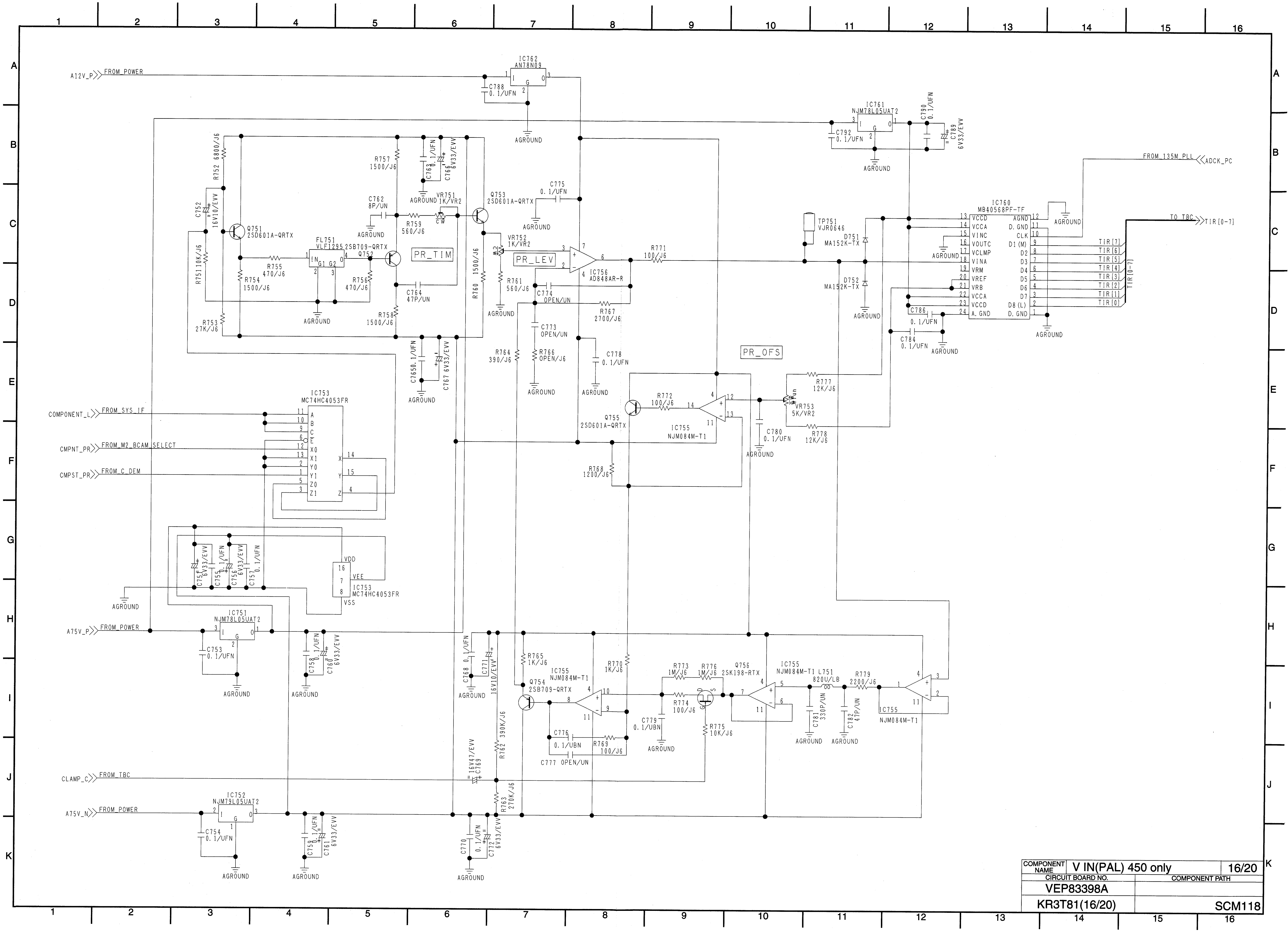
COMPONENT NAME	V IN(PAL) 450 only	13/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(13/20)	SCM115	


TO_DIG_DEC
S_VIN
RET_Y
TO_SYNC_SEP
R651 100/J6
Q652 2SB709-QRTX
R656 1000/J6
R654 220/J6
Q651 2SD601A-QRTX
R652 10K/J6
R653 1000/J6
R655 330/J6
FL651 VLF1294
IN OUT
G1 G2 G3
Q653 2SB709-QRTX
R657 330/J6
R658 1500/J6
C661 0.1/UFN
C663 6V33/EVV
AGROUND
VR651 1K/VR2
Y_LEV
C662 0.1/UFN
C664 6V33/EVV
C672 0.1/UFN
IC656 AD848AR-R
C671 1P/UN
C670 OPEN/UN
R661 180/J6
R663 OPEN/J6
R664 1200/J6
C675 0.1/UFN
R668 100/J6
R680 1000/J6
R681 680/J6
Q657 2SD601A-QRTX
R682 100/J6
R683 1000/J6
IC655 NJM084M-T1
R669 100/J6
Q655 2SD601A-QRTX
R665 1200/J6
C677 0.1/UFN
R674 33K/J6
VR652 5K/VR2
R675 0/J6
Y_OFS
TP651 VJR0646
D651 MA152K-TX
D652 MA152K-TX
C680 0.1/UFN
C681 0.1/UFN
C683 0.1/UFN
IC660 CXD1175AM-T1
DVSS VRB VRBS AVSS AVSS VIN AVDD VRT VRTS AVDD AVDD DVDD
OE DVSS D0 D1 D2 D3 D4 D5 D6 D7 VDD CLK
TIY[0] TIY[1] TIY[2] TIY[3] TIY[4] TIY[5] TIY[6] TIY[7]
TIY[0-7]
FROM_135M_PLL
SERIAL_H
TO_TBC
TIY[0-7]
C688 0.1/UFN
ADCK_Y
FL652 VLF1016A223T
C684 0.1/UFN
L652 100U/LC
IC661 NJM78L05UAT2
C682 6V33/EVV
C685 0.1/UFN
C686 6V33/EVV
C687 0.1/UFN
C689 0.1/UFN
IC653 MC74HC4053FR
COMPONENT_L
FROM_SYS_IF
CMPNT_Y
FROM_M2_BCAM_SELECT
CMPST_Y
FROM_DECODER
A B C E X0 X1 Y0 Y1 Z0 Z1 X Y Z
C651 6V33/EVV
C654 0.1/UFN
C655 6V33/EVV
C656 0.1/UFN
VDD VEE VSS
A75V_P
FROM_POWER
IC651 NJM78L05UAT2
C652 0.1/UFN
C657 0.1/UFN
C659 6V33/EVV
C665 0.1/UFN
C668 6V33/EVV
R662 1K/J6
Q654 2SB709-QRTX
R667 1K/J6
C673 0.1/UBN
C674 OPEN/UN
R666 100/J6
R670 1M/J6
R673 1M/J6
R671 100/J6
Q656 2SK198-RTX
R672 10K/J6
C676 0.1/UBN
L651 820U/LB
R676 2200/J6
C678 330P/UN
C679 47P/UN
CLAMP_Y
FROM_TBC
C666 16V47/EVV
R659 390K/J6
R660 150K/J6
A75V_N
IC652 NJM79L05UAT2
C653 0.1/UFN
C658 0.1/UFN
C660 6V33/EVV
C667 0.1/UFN
C669 6V33/EVV

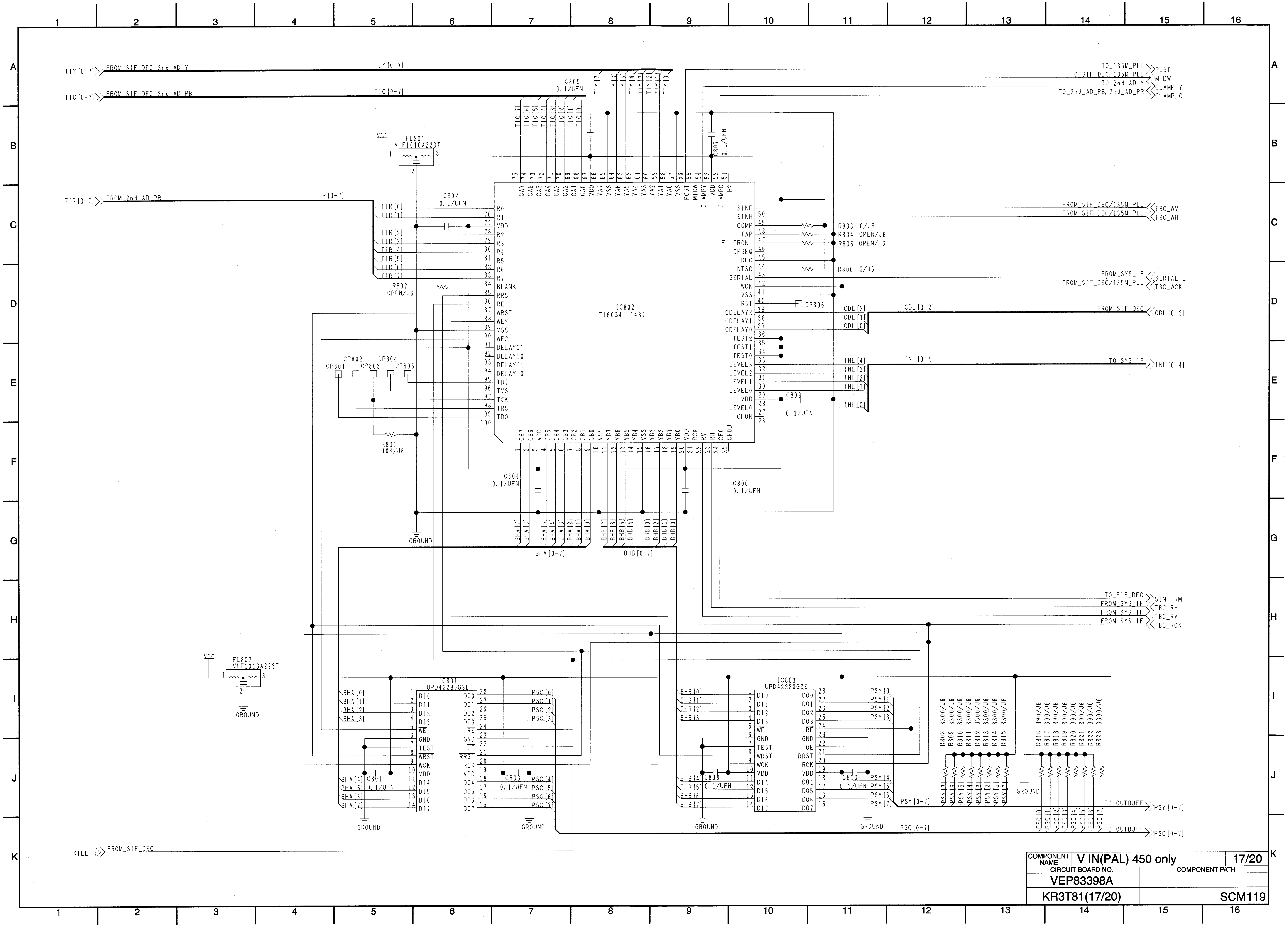
COMPONENT NAME	V IN(PAL) 450 only	14/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(14/20)		SCM116


A12V_P FROM_POWER
IC712 AN78N09
C738 0.1/UFN
AGROUND
IC711 NJM78L05UAT2
C742 0.1/UFN
C740 0.1/UFN
C739 6V33/EVV
R702 6800/J6
C702 16V10/EVV
Q701 2SD601A-QRTX
R701 10K/J6
R705 470/J6
R704 1500/J6
R703 27K/J6
FL701 VLF1295
Q702 2SB709-QRTX
R706 470/J6
R707 1500/J6
C713 0.1/UFN
C716 6V33/EVV
C712 8P/UN
R709 560/J6
VR701 1K/VR2
C714 47P/UN
R708 1500/J6
PB_TIM
R710 1500/J6
C715 0.1/UFN
C717 6V33/EVV
Q703 2SD601A-QRTX
C725 0.1/UFN
VR702 1K/VR2
PB_LEV
R711 560/J6
IC706 AD848AR-R
C724 OPEN/UN
R717 2700/J6
C723 OPEN/UN
R716 OPEN/J6
R714 390/J6
C728 0.1/UFN
R721 100/J6
TP701 VJR0646
D701 MA152K-TX
D702 MA152K-TX
IC710 MB40568PF-TF
VCCD VCCA VINC VOUTC VCLMP VINA VRM VREF VRB VCCA VCCD A.GND
AGND D.GND CLK D1(M) D2 D3 D4 D5 D6 D7 D8(L) D.GND
C736 0.1/UFN
C734 0.1/UFN
IC713 T74HCT541AF1
FROM_135M_PLL ADCK_PC
FROM_135M_PLL SERIAL_H
TO TBC TIC[0-7]
TIC[7] TIC[6] TIC[5] TIC[4] TIC[3] TIC[2] TIC[1] TIC[0]
PB_OFS
R727 12K/J6
VR703 5K/VR2
R728 12K/J6
C730 0.1/UFN
R722 100/J6
Q705 2SD601A-QRTX
IC705 NJM084M-T1
R718 1200/J6
VCC
C741 0.1/UFN
IC713 T74HCT541AF1
GROUND
COMPONENT_L FROM_SYS_IF
CMPNT_PB FROM_M2_BCAM_SELECT
CMPST_PB FROM_C_DEM
IC703 MC74HC4053FR
C701 6V33/EVV
C705 0.1/UFN
C706 6V33/EVV
C707 0.1/UFN
VDD VEE VSS
A75V_P FROM_POWER
IC701 NJM78L05UAT2
C703 0.1/UFN
C708 0.1/UFN
C710 6V33/EVV
C718 0.1/UFN
C721 16V10/EVV
R715 1K/J6
Q704 2SB709-QRTX
IC705 NJM084M-T1
C726 0.1/UBN
R719 100/J6
C727 OPEN/UN
R720 1K/J6
R723 1M/J6
R726 1M/J6
Q706 2SK198-RTX
R724 100/J6
C729 0.1/UBN
R725 10K/J6
L701 820U/LB
R729 2200/J6
C731 330P/UN
C732 47P/UN
R712 390K/J6
CLAMP_C FROM_TBC
C719 16V47/EVV
R713 270K/J6
A75V_N FROM_POWER
IC702 NJM79L05UAT2
C704 0.1/UFN
C709 0.1/UFN
C711 6V33/EVV
C720 0.1/UFN
C722 6V33/EVV

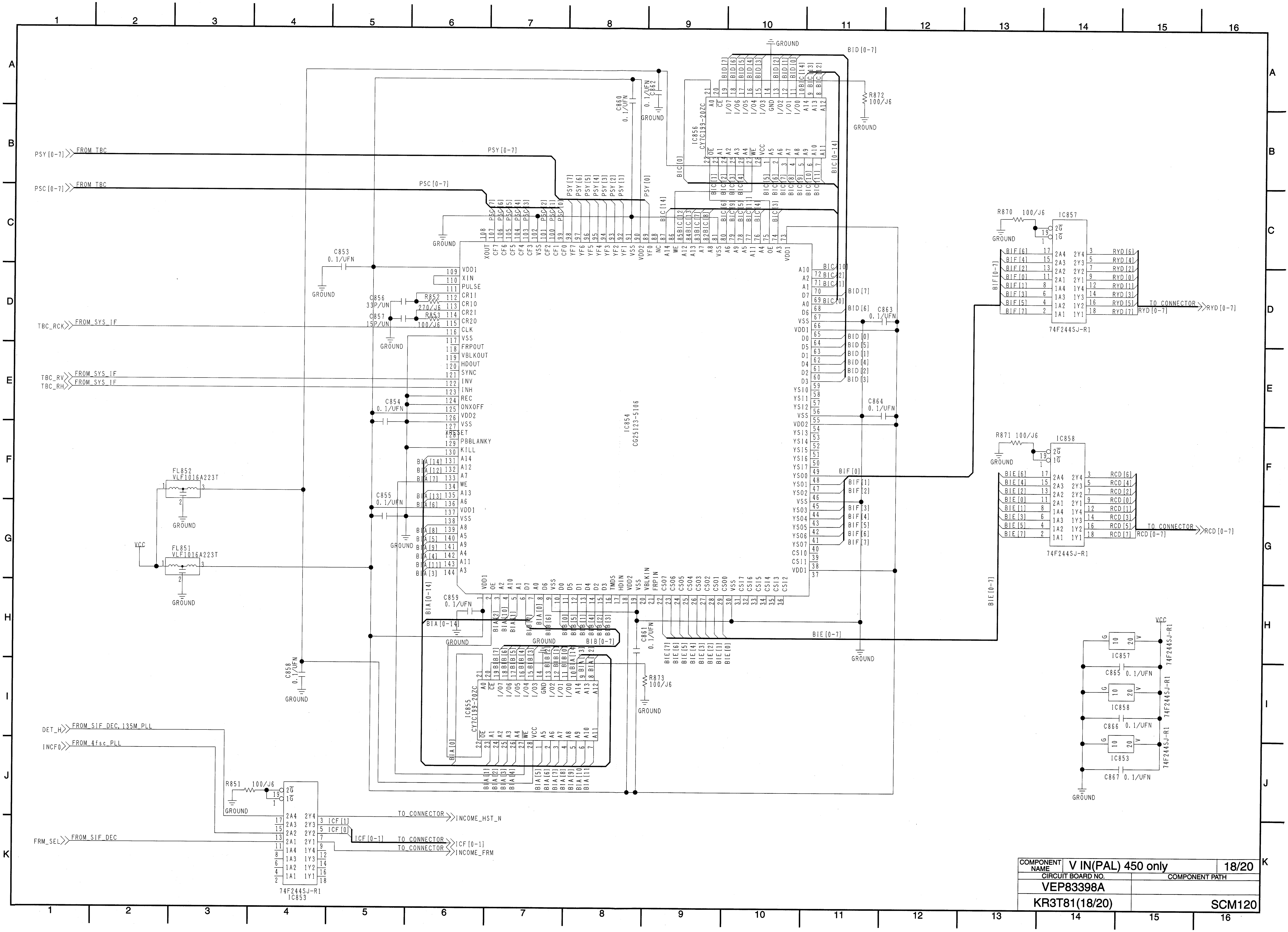
COMPONENT NAME	V IN(PAL) 450 only	15/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(15/20)	SCM117	


A12V_P
FROM_POWER
IC762
AN78N09
C788
0.1/UFN
AGROUND
IC761
NJM78L05UAT2
C792
0.1/UFN
C790
0.1/UFN
C789
6V33/EVV
FROM_135M_PLL
ADCK_PC
TO TBC
TIR[0-7]
IC760
MB40568PF-TF
VCCD
VCCA
VINC
VOUTC
VCLMP
VINA
VRM
VREF
VRB
VCCA
VCCD
A.GND
AGND
D.GND
CLK
D1(M)
D2
D3
D4
D5
D6
D7
D8(L)
D.GND
TIR[7]
TIR[6]
TIR[5]
TIR[4]
TIR[3]
TIR[2]
TIR[1]
TIR[0]
TP751
VJR0646
D751
MA152K-TX
D752
MA152K-TX
C786
0.1/UFN
C784
0.1/UFN
R771
100/J6
R752 6800/J6
C752
16V10/EVV
Q751
2SD601A-QRTX
R751 10K/J6
R753
27K/J6
R754
1500/J6
R755
470/J6
FL751
VLF1295
Q752
2SB709-QRTX
R756
470/J6
C762
8P/UN
R757
1500/J6
C763
0.1/UFN
C766
6V33/EVV
VR751
1K/VR2
CW
R759
560/J6
C764
47P/UN
R758
1500/J6
C765
0.1/UFN
C767
6V33/EVV
Q753
2SD601A-QRTX
PR_TIM
R760 1500/J6
VR752
1K/VR2
PR_LEV
R761
560/J6
C775
0.1/UFN
IC756
AD848AR-R
C774
OPEN/UN
R767
2700/J6
C773
OPEN/UN
R764
390/J6
R766
OPEN/J6
C778
0.1/UFN
PR_OFS
R772
100/J6
Q755
2SD601A-QRTX
IC755
NJM084M-T1
C780
0.1/UFN
R777
12K/J6
VR753
5K/VR2
R778
12K/J6
R768
1200/J6
COMPONENT_L
FROM_SYS_IF
CMPNT_PR
FROM_M2_BCAM_SELECT
CMPST_PR
FROM_C_DEM
IC753
MC74HC4053FR
A
B
C
E
X0
X1
Y0
Y1
Z0
Z1
X
Y
Z
VDD
VEE
VSS
C754
6V33/EVV
C755
0.1/UFN
C756
6V33/EVV
C757
0.1/UFN
A75V_P
IC751
NJM78L05UAT2
C753
0.1/UFN
C758
0.1/UFN
C760
6V33/EVV
C768
0.1/UFN
C771
16V10/EVV
R765
1K/J6
Q754
2SB709-QRTX
R770
1K/J6
R773
1M/J6
R776
1M/J6
Q756
2SK198-RTX
R774
100/J6
R775
10K/J6
C779
0.1/UBN
C776
0.1/UBN
R769
100/J6
C777 OPEN/UN
L751
820U/LB
R779
2200/J6
C781
330P/UN
C782
47P/UN
R762 390K/J6
C769
16V47/EVV
CLAMP_C
FROM_TBC
R763
270K/J6
A75V_N
IC752
NJM79L05UAT2
C754
0.1/UFN
C759
0.1/UFN
C761
6V33/EVV
C770
0.1/UFN
C772
6V33/EVV

COMPONENT NAME	V IN(PAL) 450 only	16/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(16/20)	SCM118	

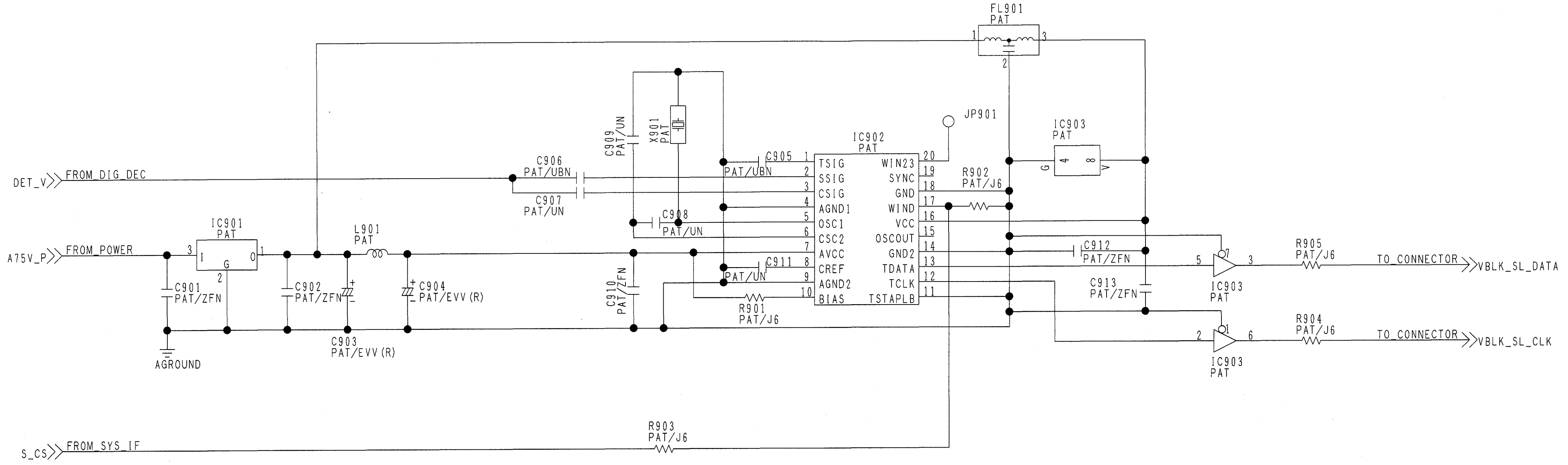

TIY[0-7] FROM SIF DEC, 2nd AD Y
TIC[0-7] FROM SIF DEC, 2nd AD PB
TIR[0-7] FROM 2nd AD PR
C805 0.1/UFN
C807 0.1/UFN
C802 0.1/UFN
FL801 VLF1016A223T
VCC
R802 OPEN/J6
CP801
CP802
CP803
CP804
CP805
CP806
R801 10K/J6
IC802 T160G41-1437
R0
R1
VDD
R2
R3
R4
R5
R6
R7
BLANK
RRST
RE
WRST
WEY
VSS
WEC
DELAYO1
DELAYO0
DELAYI1
DELAYI0
TDI
TMS
TCK
TRST
TDO
SINF
SINH
COMP
TAP
FILERON
CFSEQ
REC
NTSC
SERIAL
WCK
RST
CDELAY2
CDELAY1
CDELAY0
TEST2
TEST1
TEST0
LEVEL3
LEVEL2
LEVEL1
LEVEL0
CFON
PCST
MIDW
CLAMPY
CLAMPC
H2
RCK
RV
RH
CF0
CFOUT
R803 0/J6
R804 OPEN/J6
R805 OPEN/J6
R806 0/J6
C809 0.1/UFN
C804 0.1/UFN
C806 0.1/UFN
TO 135M PLL PCST
TO SIF DEC, 135M PLL MIDW
TO 2nd AD Y CLAMP_Y
TO 2nd AD PB, 2nd AD PR CLAMP_C
FROM SIF DEC/135M PLL TBC_WV
FROM SIF DEC/135M PLL TBC_WH
FROM SYS IF SERIAL_L
FROM SIF DEC/135M PLL TBC_WCK
CDL[0-2] FROM SIF DEC CDL[0-2]
INL[0-4] TO SYS IF INL[0-4]
GROUND
BHA[0-7]
BHB[0-7]
TO SIF DEC SIN_FRM
FROM SYS IF TBC_RH
FROM SYS IF TBC_RV
FROM SYS IF TBC_RCK
FL802 VLF1016A223T
IC801 UPD42280G3E
IC803 UPD42280G3E
DI0
DI1
DI2
DI3
WE
GND
TEST
WRST
WCK
VDD
DI4
DI5
DI6
DI7
DO0
DO1
DO2
DO3
RE
OE
RRST
RCK
DO4
DO5
DO6
DO7
C801 0.1/UFN
C803 0.1/UFN
C808 0.1/UFN
C810 0.1/UFN
PSC[0-7]
PSY[0-7]
R808 3300/J6
R809 3300/J6
R810 3300/J6
R811 3300/J6
R812 3300/J6
R813 3300/J6
R814 3300/J6
R815 3300/J6
R816 390/J6
R817 390/J6
R818 390/J6
R819 390/J6
R820 390/J6
R821 390/J6
R822 390/J6
R823 390/J6
TO OUTBUFF PSY[0-7]
TO OUTBUFF PSC[0-7]
KILL_H FROM SIF DEC

COMPONENT NAME	V IN(PAL) 450 only	17/20
CIRCUIT BOARD NO.		COMPONENT PATH
VEP83398A		
KR3T81(17/20)		SCM119

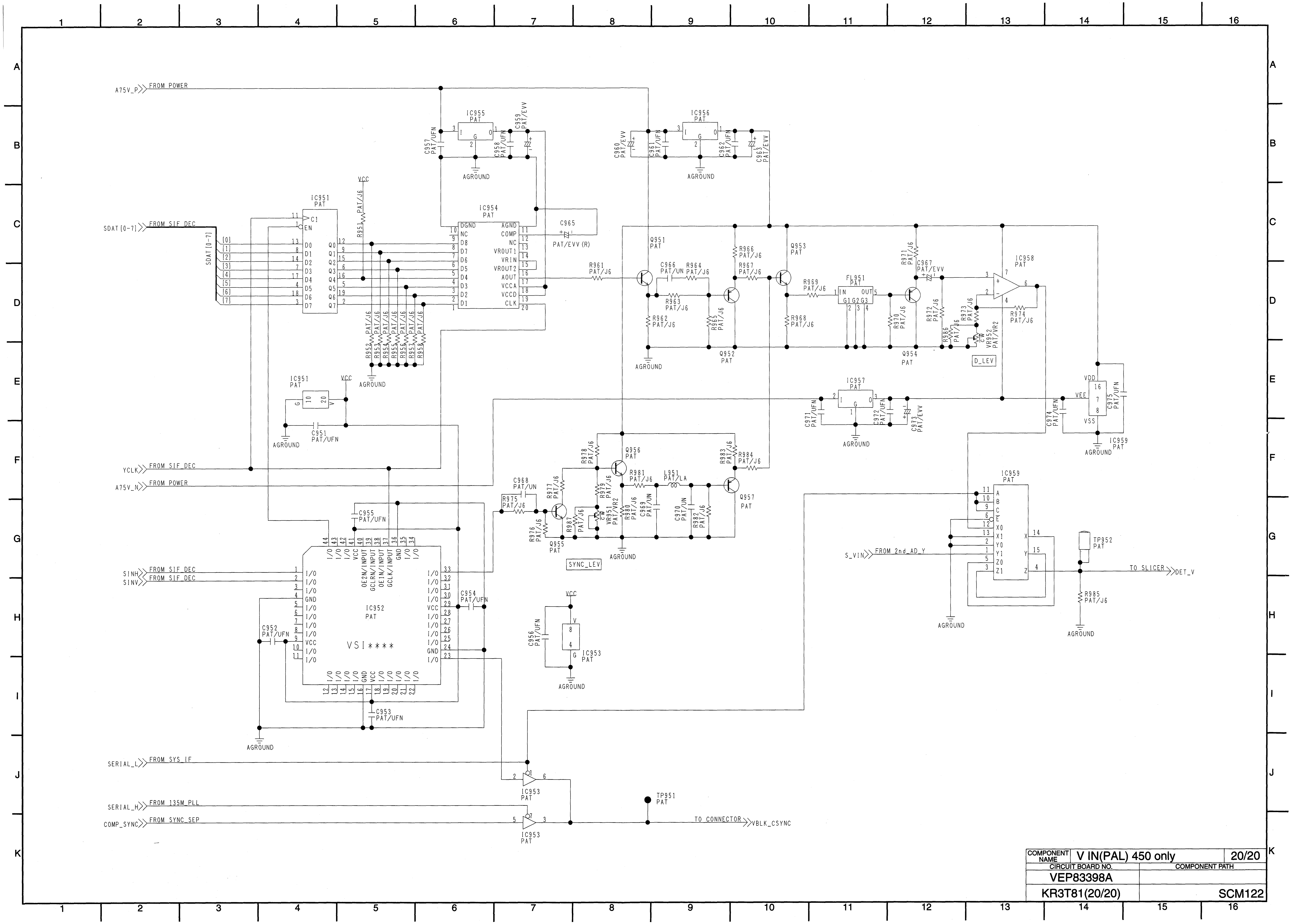


PSY [0-7] FROM TBC
PSC [0-7] FROM TBC
TBC_RCK FROM SYS_IF
TBC_RV FROM SYS_IF
TBC_RH FROM SYS_IF
DET_H FROM SIF_DEC, 135M_PLL
INCF0 FROM 4fsc_PLL
FRM_SEL FROM SIF_DEC
IC854 CG25123-5106
IC856 CY7C199-20ZC
IC855 CY7C199-20ZC
IC857 74F244SJ-R1
IC858 74F244SJ-R1
IC853 74F244SJ-R1
FL852 VLF1016A223T
FL851 VLF1016A223T
VCC
GROUND
C853 0.1/UFN
C854 0.1/UFN
C855 0.1/UFN
C856 33P/UN
C857 15P/UN
C858 0.1/UFN
C859 0.1/UFN
C860 0.1/UFN
C861 0.1/UFN
C862 0.1/UFN
C863 0.1/UFN
C864 0.1/UFN
C865 0.1/UFN
C866 0.1/UFN
C867 0.1/UFN
R851 100/J6
R852 270/J6
R853 100/J6
R870 100/J6
R871 100/J6
R872 100/J6
R873 100/J6
BID [0-7]
BIC [0-14]
BIA [0-14]
BIB [0-7]
BIE [0-7]
BIF [0-7]
RYD [0-7] TO CONNECTOR RYD [0-7]
RCD [0-7] TO CONNECTOR RCD [0-7]
ICF [0-1] TO CONNECTOR ICF [0-1]
TO CONNECTOR INCOME_HST_N
TO CONNECTOR INCOME_FRM

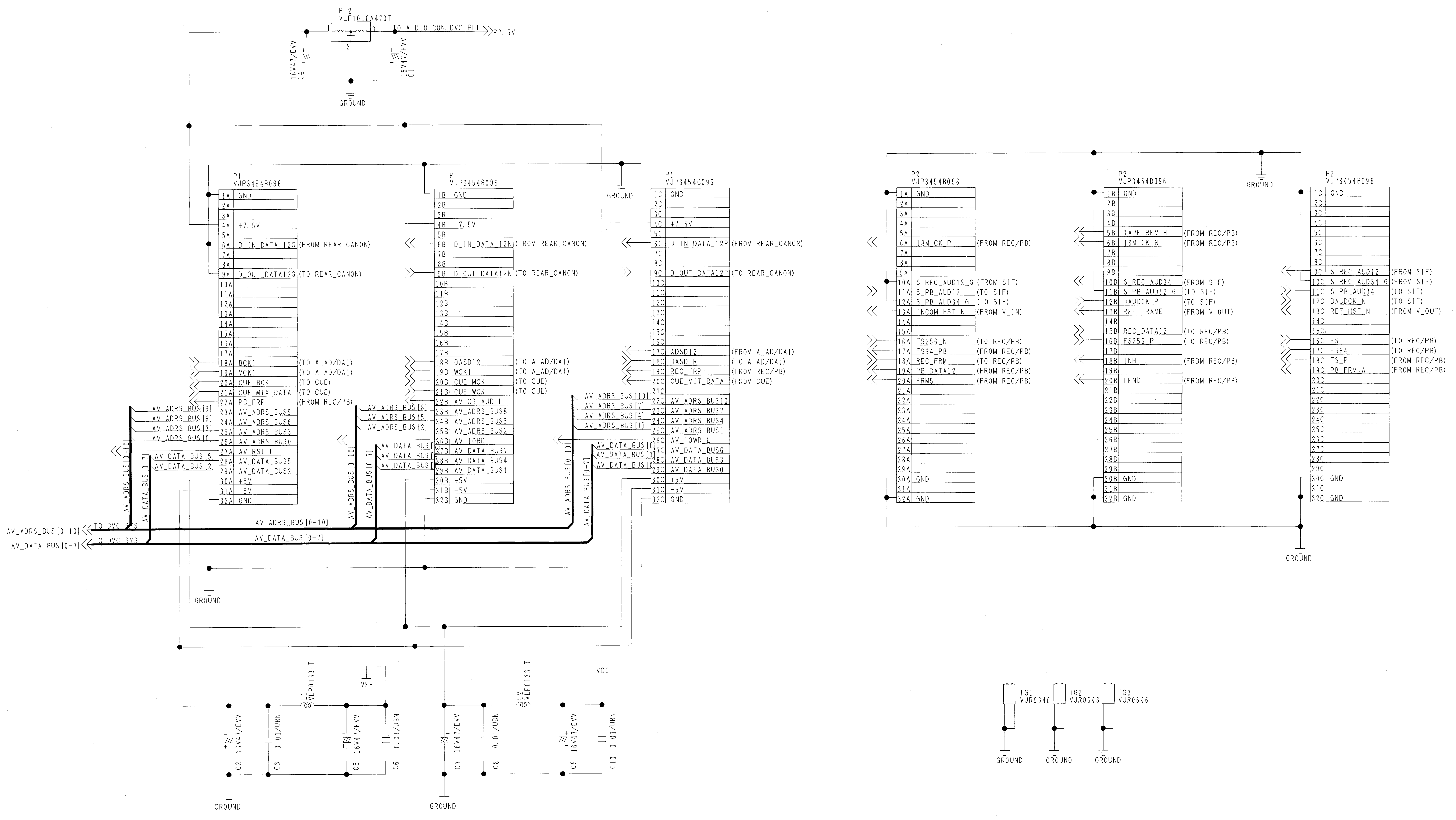
COMPONENT NAME	V IN(PAL) 450 only	18/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(18/20)		SCM120


FL901
PAT
1
2
3
JP901
IC902
PAT
TSIG
SSIG
CSIG
AGND1
OSC1
CSC2
AVCC
CREF
AGND2
BIAS
WIN23
SYNC
GND
WIND
VCC
OSCOUT
GND2
TDATA
TCLK
TSTAPLB
IC903
PAT
G
4
8
V
C909
PAT/UN
X901
PAT
C905
PAT/UBN
C906
PAT/UBN
C907
PAT/UN
C908
PAT/UN
C911
PAT/UN
C910
PAT/ZFN
R901
PAT/J6
R902
PAT/J6
C912
PAT/ZFN
C913
PAT/ZFN
R905
PAT/J6
R904
PAT/J6
IC903
PAT
TO_CONNECTOR
VBLK_SL_DATA
VBLK_SL_CLK
DET_V
FROM_DIG_DEC
A75V_P
FROM_POWER
IC901
PAT
I
G
O
C901
PAT/ZFN
C902
PAT/ZFN
L901
PAT
C903
PAT/EVV(R)
C904
PAT/EVV(R)
AGROUND
S_CS
FROM_SYS_IF
R903
PAT/J6

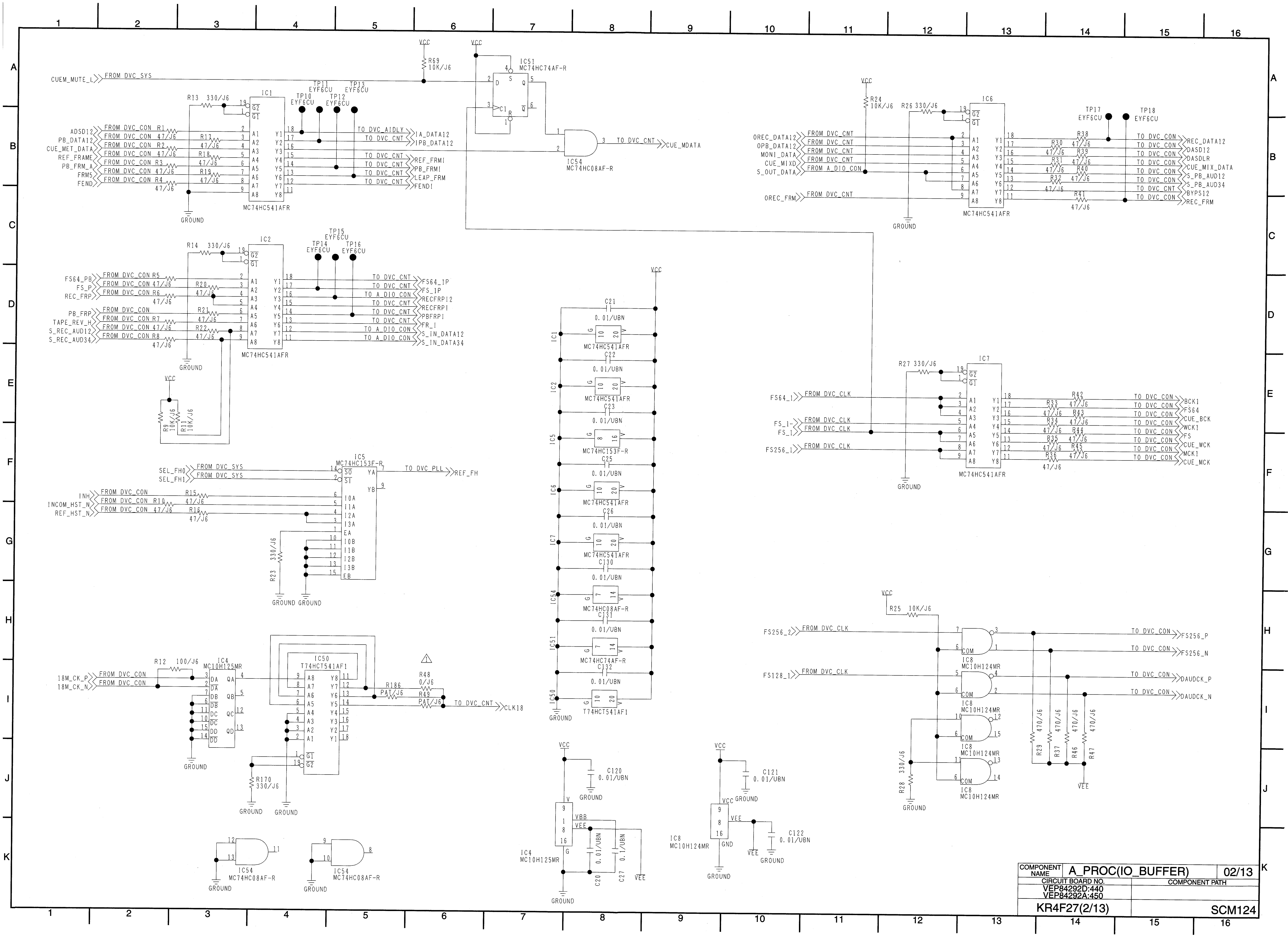
COMPONENT NAME	V IN(PAL) 450 only	19/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(19/20)	SCM121	


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
A75V_P FROM POWER
IC955 PAT
C957 PAT/UFN
C958 PAT/UFN
C959 PAT/EVV
AGROUND
IC956 PAT
C960 PAT/EVV
C961 PAT/UFN
C962 PAT/UFN
C963 PAT/EVV
VCC
R951 PAT/J6
IC951 PAT
C1
EN
D0 D1 D2 D3 D4 D5 D6 D7
Q0 Q1 Q2 Q3 Q4 Q5 Q6 Q7
SDAT[0-7] FROM SIF DEC
SDAT[0-7]
[0] [1] [2] [3] [4] [5] [6] [7]
IC954 PAT
DGND NC D8 D7 D6 D5 D4 D3 D2 D1
AGND COMP NC VROUT1 VRIN VROUT2 AOUT VCCA VCCD CLK
C965 PAT/EVV (R)
R952 PAT/J6
R953 PAT/J6
R954 PAT/J6
R955 PAT/J6
R956 PAT/J6
R957 PAT/J6
R958 PAT/J6
R961 PAT/J6
Q951 PAT
C966 PAT/UN
R964 PAT/J6
R963 PAT/J6
R962 PAT/J6
R965 PAT/J6
Q952 PAT
R966 PAT/J6
R967 PAT/J6
Q953 PAT
R968 PAT/J6
R969 PAT/J6
FL951 PAT
IN OUT G1 G2 G3
R970 PAT/J6
Q954 PAT
R971 PAT/J6
C967 PAT/EVV
R972 PAT/J6
R973 PAT/J6
R986 PAT/J6
VR952 PAT/VR2
CW
D_LEV
IC958 PAT
R974 PAT/J6
IC951 PAT
G 10 20 V
C951 PAT/UFN
IC957 PAT
I G O
C971 PAT/UFN
C972 PAT/UFN
C973 PAT/EVV
C974 PAT/UFN
VDD VEE VSS
C975 PAT/UFN
IC959 PAT
YCLK FROM SIF DEC
A75V_N FROM POWER
C955 PAT/UFN
R978 PAT/J6
Q956 PAT
R983 PAT/J6
R984 PAT/J6
R981 PAT/J6
L951 PAT/LA
Q957 PAT
C968 PAT/UN
R975 PAT/J6
R977 PAT/J6
R979 PAT/J6
VR951 PAT/VR2
R980 PAT/J6
C969 PAT/UN
C970 PAT/UN
R982 PAT/J6
R976 PAT/J6
R987 PAT/J6
Q955 PAT
SYNC_LEV
IC959 PAT
A B C E X0 X1 Y0 Y1 Z0 Z1 X Y Z
TP952 PAT
S_VIN FROM 2nd_AD_Y
TO SLICER DET_V
R985 PAT/J6
SINH FROM SIF DEC
SINV FROM SIF DEC
I/O GND VCC
OE2N/INPUT GCLRN/INPUT OE1N/INPUT GCLK/INPUT
IC952 PAT
VSI****
C954 PAT/UFN
C952 PAT/UFN
C953 PAT/UFN
C956 PAT/UFN
IC953 PAT
V G
SERIAL_L FROM SYS_IF
IC953 PAT
TP951 PAT
SERIAL_H FROM 135M_PLL
COMP_SYNC FROM SYNC SEP
IC953 PAT
TO CONNECTOR VBLK_CSYNC

COMPONENT NAME	V IN(PAL) 450 only	20/20
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83398A		
KR3T81(20/20)	SCM122	


FL2
VLF1016A470T
TO A DIO CON, DVC PLL
P7.5V
16V47/EVV C4
16V47/EVV C1
GROUND
P1 VJP3454B096
1A GND
4A +7.5V
6A D_IN_DATA_12G (FROM REAR_CANON)
9A D_OUT_DATA12G (TO REAR_CANON)
18A BCK1 (TO A_AD/DA1)
19A MCK1 (TO A_AD/DA1)
20A CUE_BCK (TO CUE)
21A CUE_MIX_DATA (TO CUE)
22A PB_FRP (FROM REC/PB)
23A AV_ADRS_BUS9
24A AV_ADRS_BUS6
25A AV_ADRS_BUS3
26A AV_ADRS_BUS0
27A AV_RST_L
28A AV_DATA_BUS5
29A AV_DATA_BUS2
30A +5V
31A -5V
32A GND
AV_ADRS_BUS[9]
AV_ADRS_BUS[6]
AV_ADRS_BUS[3]
AV_ADRS_BUS[0]
AV_DATA_BUS[5]
AV_DATA_BUS[2]
P1 VJP3454B096
1B GND
4B +7.5V
6B D_IN_DATA_12N (FROM REAR_CANON)
9B D_OUT_DATA12N (TO REAR_CANON)
18B DASD12 (TO A_AD/DA1)
19B WCK1 (TO A_AD/DA1)
20B CUE_MCK (TO CUE)
21B CUE_WCK (TO CUE)
22B AV_CS_AUD_L
23B AV_ADRS_BUS8
24B AV_ADRS_BUS5
25B AV_ADRS_BUS2
26B AV_IORD_L
27B AV_DATA_BUS7
28B AV_DATA_BUS4
29B AV_DATA_BUS1
30B +5V
31B -5V
32B GND
AV_ADRS_BUS[8]
AV_ADRS_BUS[5]
AV_ADRS_BUS[2]
AV_DATA_BUS[7]
AV_DATA_BUS[4]
AV_DATA_BUS[1]
P1 VJP3454B096
1C GND
4C +7.5V
6C D_IN_DATA_12P (FROM REAR_CANON)
9C D_OUT_DATA12P (TO REAR_CANON)
17C ADSD12 (FROM A_AD/DA1)
18C DASDLR (TO A_AD/DA1)
19C REC_FRP (FROM REC/PB)
20C CUE_MET_DATA (FROM CUE)
22C AV_ADRS_BUS10
23C AV_ADRS_BUS7
24C AV_ADRS_BUS4
25C AV_ADRS_BUS1
26C AV_IOWR_L
27C AV_DATA_BUS6
28C AV_DATA_BUS3
29C AV_DATA_BUS0
30C +5V
31C -5V
32C GND
AV_ADRS_BUS[10]
AV_ADRS_BUS[7]
AV_ADRS_BUS[4]
AV_ADRS_BUS[1]
AV_DATA_BUS[6]
AV_DATA_BUS[3]
AV_DATA_BUS[0]
AV_ADRS_BUS[0-10]
AV_DATA_BUS[0-7]
AV_ADRS_BUS[0-10] TO DVC SYS
AV_DATA_BUS[0-7] TO DVC SYS
P2 VJP3454B096
1A GND
6A 18M_CK_P (FROM REC/PB)
10A S_REC_AUD12_G (FROM SIF)
11A S_PB_AUD12 (TO SIF)
12A S_PB_AUD34_G (TO SIF)
13A INCOM_HST_N (FROM V_IN)
16A FS256_N (TO REC/PB)
17A FS64_PB (FROM REC/PB)
18A REC_FRM (TO REC/PB)
19A PB_DATA12 (FROM REC/PB)
20A FRM5 (FROM REC/PB)
30A GND
32A GND
P2 VJP3454B096
1B GND
5B TAPE_REV_H (FROM REC/PB)
6B 18M_CK_N (FROM REC/PB)
10B S_REC_AUD34 (FROM SIF)
11B S_PB_AUD12_G (TO SIF)
12B DAUDCK_P (TO SIF)
13B REF_FRAME (FROM V_OUT)
15B REC_DATA12 (TO REC/PB)
16B FS256_P (TO REC/PB)
18B INH (FROM REC/PB)
20B FEND (FROM REC/PB)
30B GND
32B GND
P2 VJP3454B096
1C GND
9C S_REC_AUD12 (FROM SIF)
10C S_REC_AUD34_G (FROM SIF)
11C S_PB_AUD34 (TO SIF)
12C DAUDCK_N (TO SIF)
13C REF_HST_N (FROM V_OUT)
16C FS (TO REC/PB)
17C FS64 (TO REC/PB)
18C FS_P (FROM REC/PB)
19C PB_FRM_A (FROM REC/PB)
30C GND
32C GND
GROUND
L1 VLP0133-T
VEE
C2 16V47/EVV
C3 0.01/UBN
C5 16V47/EVV
C6 0.01/UBN
L2 VLP0133-T
VCC
C7 16V47/EVV
C8 0.01/UBN
C9 16V47/EVV
C10 0.01/UBN
TG1 VJR0646
TG2 VJR0646
TG3 VJR0646
GROUND

COMPONENT NAME	A_PROC(CONNECTOR)	01/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(1/13)	SCM123	


CUEM_MUTE_L
FROM DVC_SYS
VCC
R69 10K/J6
IC51 MC74HC74AF-R
IC1
R13 330/J6
TP10 EYF6CU
TP11 EYF6CU
TP12 EYF6CU
TP13 EYF6CU
ADSD12
PB_DATA12
CUE_MET_DATA
REF_FRAME
PB_FRM_A
FRM5
FEND
FROM DVC_CON
R1 R2 R3 R4 R17 R18 R19 47/J6
TO DVC_AIDLY
IA_DATA12
TO DVC_CNT
IPB_DATA12
REF_FRMI
PB_FRMI
LEAP_FRM
FENDI
MC74HC541AFR
GROUND
IC54 MC74HC08AF-R
CUE_MDATA
IC2
R14 330/J6
TP14 EYF6CU
TP15 EYF6CU
TP16 EYF6CU
FS64_PB
FS_P
REC_FRP
PB_FRP
TAPE_REV_H
S_REC_AUD12
S_REC_AUD34
R5 R6 R7 R8 R20 R21 R22 47/J6
FS64_1P
FS_1P
TO A_DIO_CON
RECFRPI2
RECFRPI
PBFRPI
FR_I
S_IN_DATA12
S_IN_DATA34
R9 10K/J6
R11 10K/J6
IC5 MC74HC153F-R
SEL_FH0
SEL_FH1
TO DVC_PLL
REF_FH
INH
INCOM_HST_N
REF_HST_N
R15 R10 R16 47/J6
R23 330/J6
IC4 MC10H125MR
18M_CK_P
18M_CK_N
R12 100/J6
IC50 T74HCT541AF1
R186 PAT/J6
R48 0/J6
R49 PAT/J6
CLK18
R170 330/J6
IC54 MC74HC08AF-R
C21 C22 C23 C25 C26 C130 C131 C132 0.01/UBN
IC1 IC2 IC5 IC6 IC7 IC54 IC51 IC50
MC74HC541AFR
MC74HC153F-R
MC74HC08AF-R
MC74HC74AF-R
T74HCT541AF1
C120 0.01/UBN
C20 0.01/UBN
C27 0.1/UBN
IC4 MC10H125MR
VBB
VEE
C121 0.01/UBN
C122 0.01/UBN
IC8 MC10H124MR
IC6
R24 10K/J6
R26 330/J6
TP17 EYF6CU
TP18 EYF6CU
OREC_DATA12
OPB_DATA12
MONI_DATA
CUE_MIXD
S_OUT_DATA
OREC_FRM
FROM DVC_CNT
FROM A_DIO_CON
R30 R31 R32 R38 R39 R40 R41 47/J6
TO DVC_CON
REC_DATA12
DASD12
DASDLR
CUE_MIX_DATA
S_PB_AUD12
S_PB_AUD34
BYPS12
REC_FRM
IC7
R27 330/J6
FS64_1
FS_1
FS256_1
FROM DVC_CLK
R33 R34 R35 R36 R42 R43 R44 R45 47/J6
BCK1
FS64
CUE_BCK
WCK1
FS
CUE_WCK
MCK1
CUE_MCK
R25 10K/J6
FS256_2
FS128_1
IC8 MC10H124MR
FS256_P
FS256_N
DAUDCK_P
DAUDCK_N
R28 330/J6
R29 R37 R46 R47 470/J6
VEE

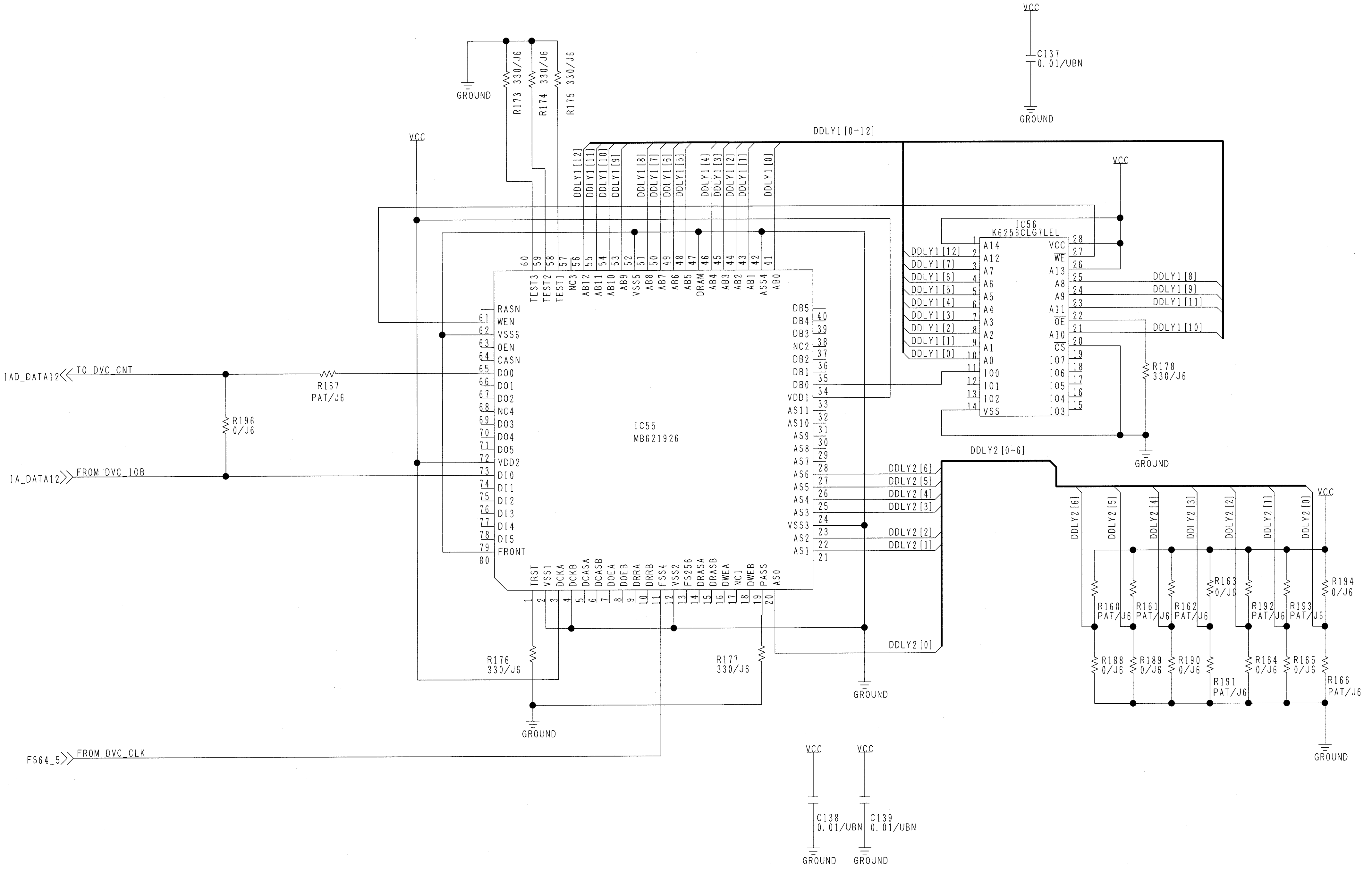
COMPONENT NAME A_PROC(IO_BUFFER) 02/13

CIRCUIT BOARD NO.
VEP84292D:440
VEP84292A:450

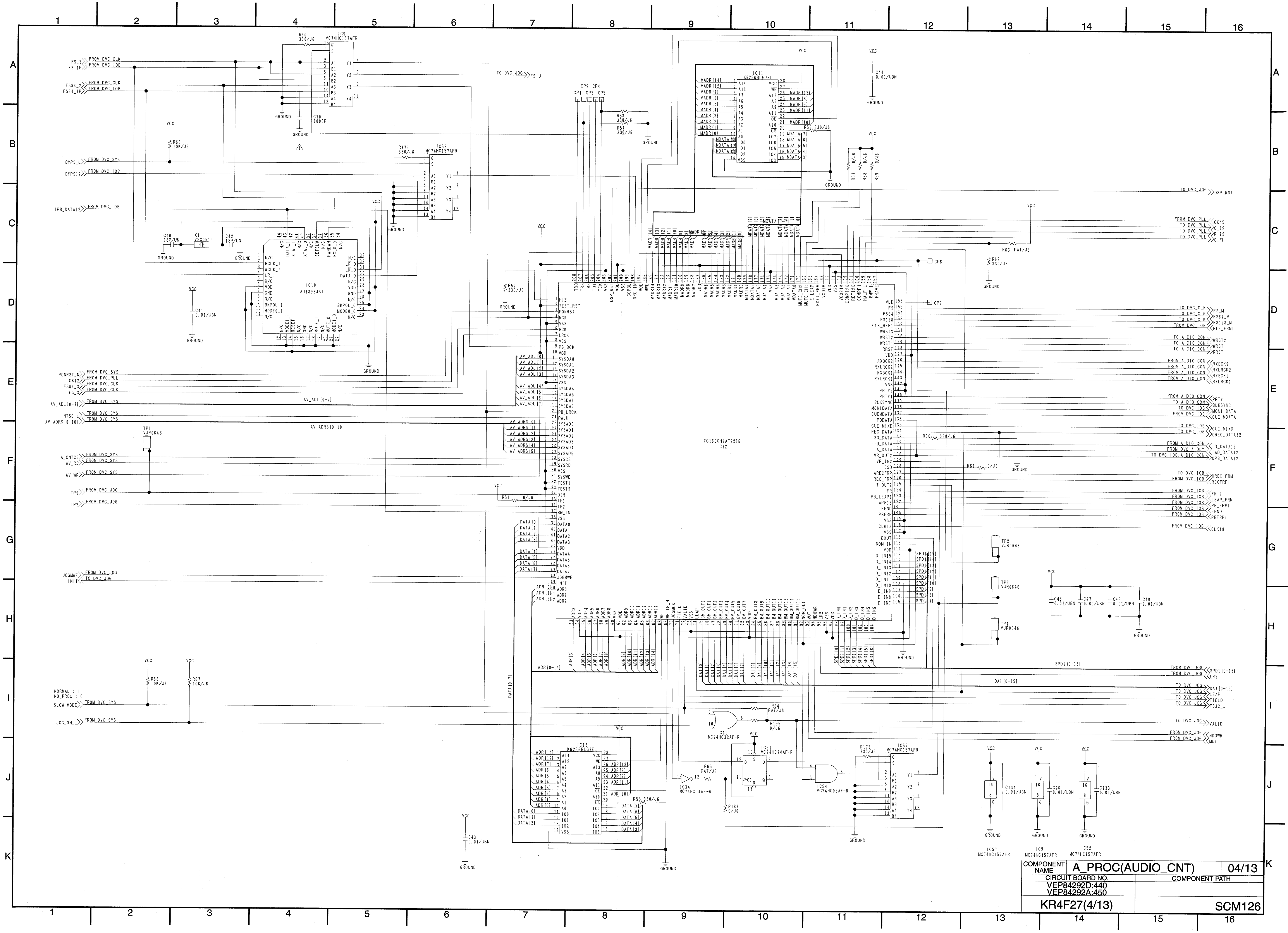
COMPONENT PATH

KR4F27(2/13)

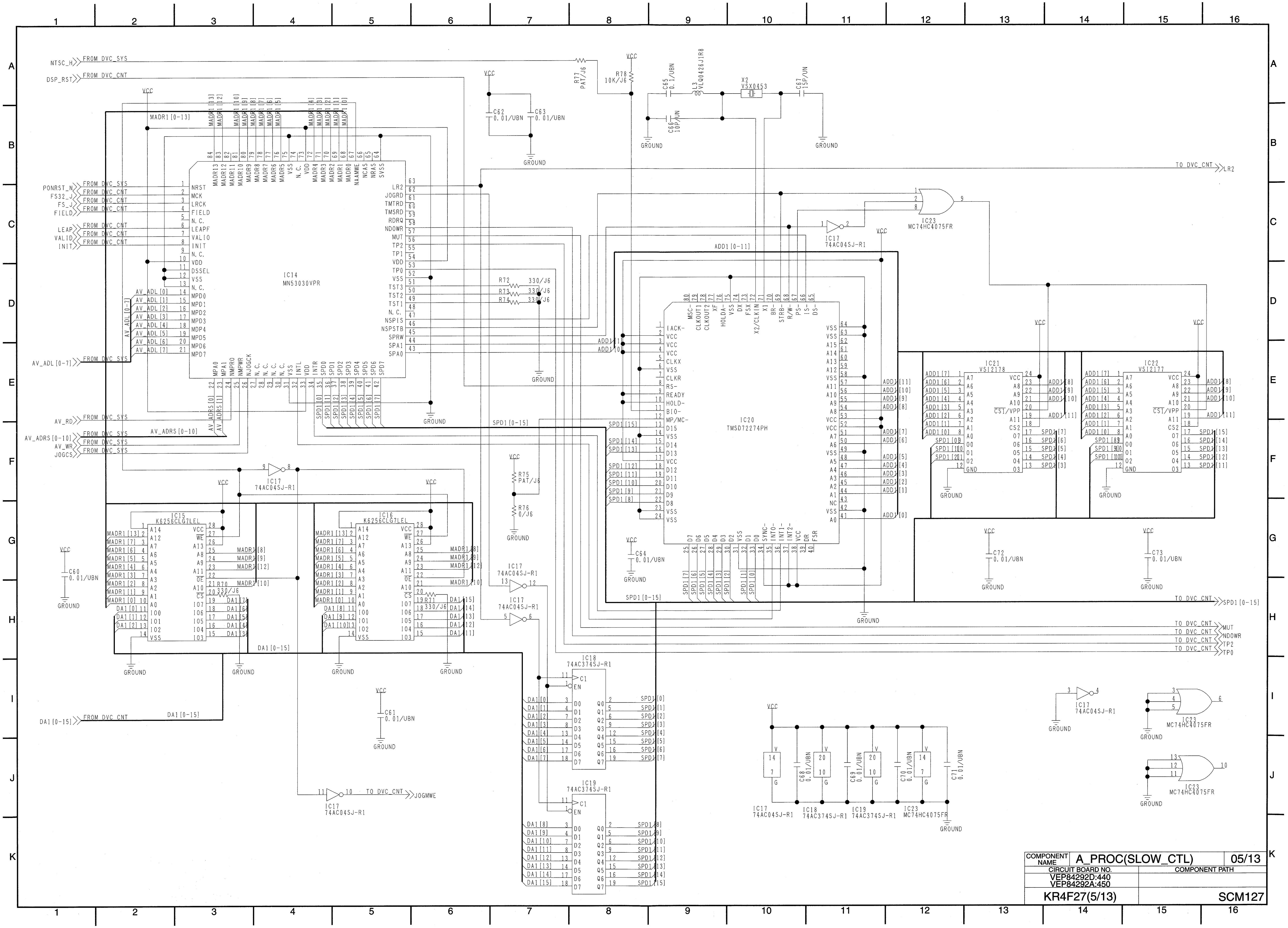
SCM124


VCC
C137
0.01/UBN
GROUND
R173 330/J6
R174 330/J6
R175 330/J6
DDLY1[0-12]
VCC
IC56
K6256CLG7LEL
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
IO0
IO1
IO2
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
IO7
IO6
IO5
IO4
IO3
DDLY1[12]
DDLY1[7]
DDLY1[6]
DDLY1[5]
DDLY1[4]
DDLY1[3]
DDLY1[2]
DDLY1[1]
DDLY1[0]
DDLY1[8]
DDLY1[9]
DDLY1[11]
DDLY1[10]
R178
330/J6
GROUND
IC55
MB621926
TEST3
TEST2
TEST1
NC3
AB12
AB11
AB10
AB9
VSS5
AB8
AB7
AB6
AB5
DRAM
AB4
AB3
AB2
AB1
ASS4
AB0
RASN
WEN
VSS6
OEN
CASN
DO0
DO1
DO2
NC4
DO3
DO4
DO5
VDD2
DI0
DI1
DI2
DI3
DI4
DI5
FRONT
DB5
DB4
DB3
NC2
DB2
DB1
DB0
VDD1
AS11
AS10
AS9
AS8
AS7
AS6
AS5
AS4
AS3
VSS3
AS2
AS1
TRST
VSS1
DCKA
DCKB
DCASA
DCASB
DOEA
DOEB
DRRA
DRRB
FSS4
VSS2
FS256
DRASA
DRASB
DWEA
NC1
DWEB
PASS
AS0
IAD_DATA12
TO DVC_CNT
R167
PAT/J6
R196
0/J6
IA_DATA12
FROM DVC_IOB
R176
330/J6
R177
330/J6
GROUND
FS64_5
FROM DVC_CLK
DDLY2[0-6]
DDLY2[6]
DDLY2[5]
DDLY2[4]
DDLY2[3]
DDLY2[2]
DDLY2[1]
DDLY2[0]
GROUND
VCC
R160 PAT/J6
R161 PAT/J6
R162 PAT/J6
R163 0/J6
R192 PAT/J6
R193 PAT/J6
R194 0/J6
R188 0/J6
R189 0/J6
R190 0/J6
R191 PAT/J6
R164 0/J6
R165 0/J6
R166 PAT/J6
GROUND
VCC
VCC
C138
0.01/UBN
C139
0.01/UBN
GROUND
GROUND

COMPONENT NAME	A_PROC(AIN_DLY)	03/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(3/13)		SCM125


IC9 MC74HC157AFR
R50 330/J6
C30 1000P
FS_2 FROM DVC_CLK
FS_1P FROM DVC_IOB
FS64_2 FROM DVC_CLK
FS64_1P FROM DVC_IOB
TO DVC_JOG FS_J
R68 10K/J6
BYPS_L FROM DVC_SYS
BYPS12 FROM DVC_IOB
R171 330/J6
IC52 MC74HC157AFR
IPB_DATA12 FROM DVC_IOB
C40 18P/UN
X1 VSX0519
C42 18P/UN
IC10 AD1893JST
C41 0.01/UBN
CP1 CP2 CP3 CP4 CP5
R53 330/J6
R54 330/J6
IC11 K6256BLG7EL
R56 330/J6
C44 0.01/UBN
R57 0/J6
R58 0/J6
R59 0/J6
TO DVC_JOG DSP_RST
FROM DVC_PLL CK45
TO DVC_PLL C_12
TO DVC_PLL R_12
TO DVC_PLL C_FH
R63 PAT/J6
R62 330/J6
CP6
CP7
R52 330/J6
TC160GH7AF2216 IC12
PONRST_N FROM DVC_SYS
CK12 FROM DVC_PLL
FS64_3 FROM DVC_CLK
FS_3
AV_ADL[0-7] FROM DVC_SYS
NTSC_L FROM DVC_SYS
AV_ADRS[0-10] FROM DVC_SYS
TP1 VJR0646
A_CNTCS FROM DVC_SYS
AV_RD FROM DVC_SYS
AV_WR FROM DVC_SYS
TP0 FROM DVC_JOG
TP2 FROM DVC_JOG
R51 0/J6
JOGMWE FROM DVC_JOG
INIT TO DVC_JOG
TO DVC_CLK FS_M
TO DVC_CLK FS64_M
TO DVC_CLK FS128_M
FROM DVC_IOB REF_FRM
TO A_DIO_CON WRST2
TO A_DIO_CON WRST1
TO A_DIO_CON RRST
FROM A_DIO_CON RXBCK2
FROM A_DIO_CON RXLRCK2
FROM A_DIO_CON RXBCK1
FROM A_DIO_CON RXLRCK1
FROM A_DIO_CON PRTY
TO A_DIO_CON BLKSYNC
TO DVC_IOB MONI_DATA
FROM DVC_IOB CUE_MDATA
TO DVC_IOB CUE_MIXD
TO DVC_IOB OREC_DATA12
R60 330/J6
FROM A_DIO_CON ID_DATA12
FROM DVC_AEDLY IAD_DATA12
TO DVC_IOB, A_DIO_CON OPB_DATA12
R61 0/J6
TO DVC_IOB OREC_FRM
FROM DVC_IOB RECFRP1
FROM DVC_IOB FR_I
FROM DVC_IOB LEAP_FRM
FROM DVC_IOB PB_FRM1
FROM DVC_IOB FEND1
FROM DVC_IOB PBFRP1
FROM DVC_IOB CLK18
TP2 VJR0646
TP3 VJR0646
TP4 VJR0646
C45 0.01/UBN
C47 0.01/UBN
C48 0.01/UBN
C49 0.01/UBN
SPDI[0-15]
FROM DVC_JOG SPDI[0-15]
FROM DVC_JOG LR2
DAI[0-15]
TO DVC_JOG DAI[0-15]
TO DVC_JOG LEAP
TO DVC_JOG FIELD
TO DVC_JOG FS32_J
TO DVC_JOG VALID
FROM DVC_JOG NDOWR
FROM DVC_JOG MUT
R66 10K/J6
R67 10K/J6
NORMAL : 1
NO_PROC : 0
SLOW_MODE FROM DVC_SYS
JOG_ON_L FROM DVC_SYS
ADR[0-14]
DATA[0-7]
IC13 K6256BLG7EL
R55 330/J6
C43 0.01/UBN
R64 PAT/J6
R195 0/J6
IC41 MC74HC32AF-R
IC51 MC74HC74AF-R
R65 PAT/J6
IC34 MC74HC04AF-R
R187 0/J6
IC54 MC74HC08AF-R
R172 330/J6
IC57 MC74HC157AFR
C134 0.01/UBN
C46 0.01/UBN
C133 0.01/UBN
IC57 MC74HC157AFR
IC9 MC74HC157AFR
IC52 MC74HC157AFR
VCC
GROUND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	A_PROC(AUDIO_CNT)	04/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(4/13)	SCM126	


NTSC_H FROM DVC_SYS
DSP_RST FROM DVC_CNT
PONRST_N FROM DVC_SYS
FS32_J FROM DVC_CNT
FS_J FROM DVC_CNT
FIELD FROM DVC_CNT
LEAP FROM DVC_CNT
VALID FROM DVC_CNT
INIT FROM DVC_CNT
AV_ADL[0-7] FROM DVC_SYS
AV_RD FROM DVC_SYS
AV_ADRS[0-10] FROM DVC_SYS
AV_WR FROM DVC_SYS
JOGCS FROM DVC_SYS
DA1[0-15] FROM DVC_CNT
MADR1[0-13]
IC14
MN53030VPR
IC15
K6256CLG7LEL
IC16
K6256CLG7LEL
IC17
74AC04SJ-R1
IC18
74AC374SJ-R1
IC19
74AC374SJ-R1
IC20
TMSD72274PH
IC21
VS12178
IC22
VS12177
IC23
MC74HC4075FR
R77 PAT/J6
R78 10K/J6
C65 0.1/UBN
L3 VLQ0426J1R8
X2 VSX0453
C67 15P/UN
C66 10P/UN
C62 0.01/UBN
C63 0.01/UBN
R72 330/J6
R73 330/J6
R74 330/J6
R75 PAT/J6
R76 0/J6
R70 330/J6
R71 330/J6
C60 0.01/UBN
C61 0.01/UBN
C64 0.01/UBN
C72 0.01/UBN
C73 0.01/UBN
C68 0.01/UBN
C69 0.01/UBN
C70 0.01/UBN
C71 0.01/UBN
ADD1[0-11]
SPD1[0-15]
DA1[0-15]
AV_ADRS[0-10]
VCC
GROUND
TO DVC_CNT LR2
TO DVC_CNT SPD1[0-15]
TO DVC_CNT MUT
TO DVC_CNT NDOWR
TO DVC_CNT TP2
TO DVC_CNT TP0
TO DVC_CNT JOGMWE

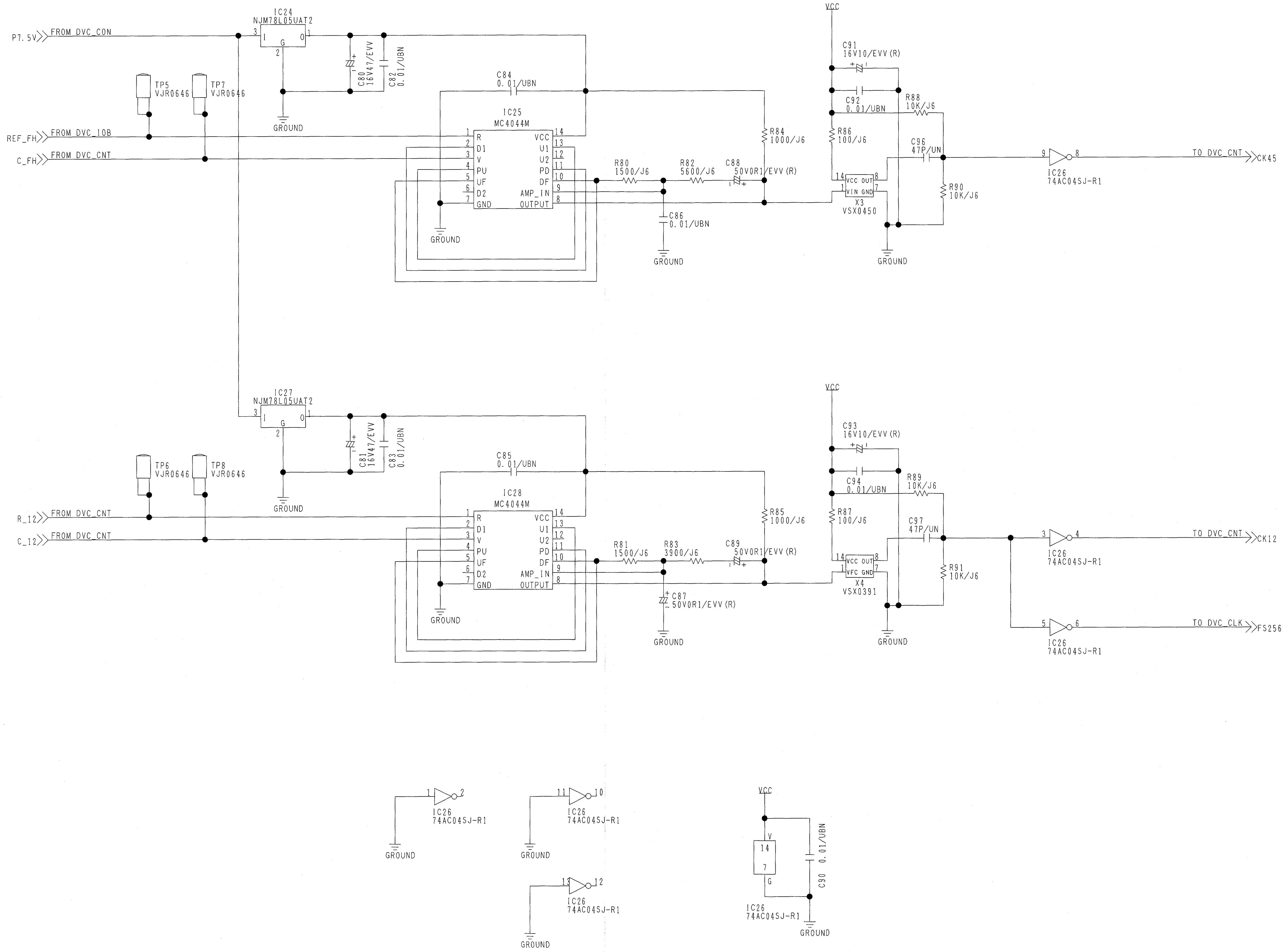
COMPONENT NAME A_PROC(SLOW_CTL) 05/13

CIRCUIT BOARD NO.
VEP84292D:440
VEP84292A:450

COMPONENT PATH

KR4F27(5/13)

SCM127


IC24
NJM78L05UAT2
P7.5V
FROM DVC_CON
C80
16V47/EVV
C82
0.01/UBN
GROUND
TP5
VJR0646
TP7
VJR0646
C84
0.01/UBN
IC25
MC4044M
REF_FH
FROM DVC_IOB
C_FH
FROM DVC_CNT
R
D1
V
PU
UF
D2
GND
VCC
U1
U2
PD
DF
AMP_IN
OUTPUT
R84
1000/J6
R80
1500/J6
R82
5600/J6
C88
50V0R1/EVV (R)
C86
0.01/UBN
VCC
C91
16V10/EVV (R)
C92
0.01/UBN
R86
100/J6
R88
10K/J6
C96
47P/UN
R90
10K/J6
X3
VSX0450
IC26
74AC04SJ-R1
TO DVC_CNT
CK45
IC27
NJM78L05UAT2
C81
16V47/EVV
C83
0.01/UBN
TP6
VJR0646
TP8
VJR0646
C85
0.01/UBN
IC28
MC4044M
R_12
FROM DVC_CNT
C_12
FROM DVC_CNT
R85
1000/J6
R81
1500/J6
R83
3900/J6
C89
50V0R1/EVV (R)
C87
50V0R1/EVV (R)
C93
16V10/EVV (R)
C94
0.01/UBN
R87
100/J6
R89
10K/J6
C97
47P/UN
R91
10K/J6
X4
VSX0391
TO DVC_CNT
CK12
TO DVC_CLK
FS256
C90
0.01/UBN

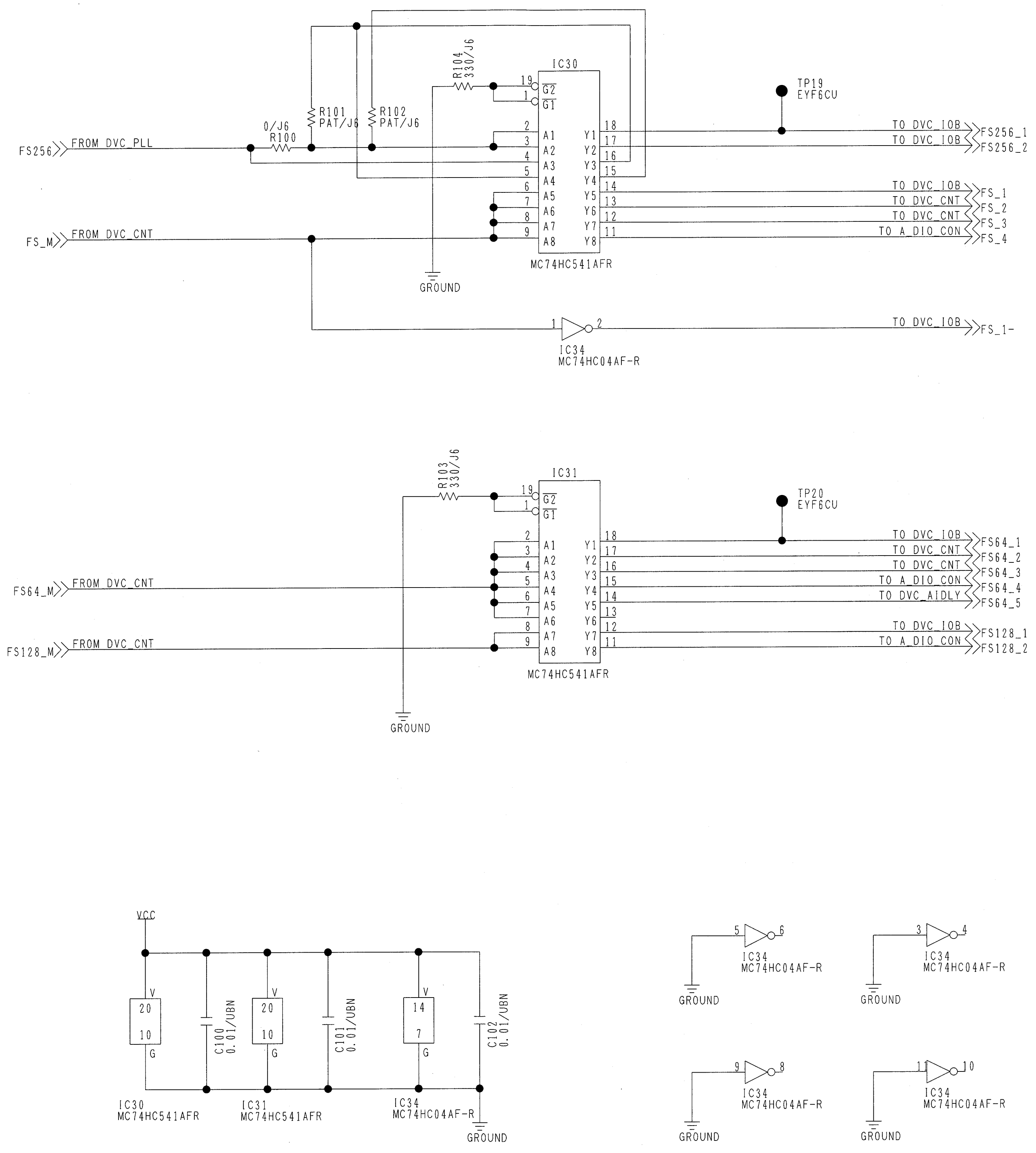
COMPONENT NAME: A_PROC(PLL) 06/13

CIRCUIT BOARD NO.: VEP84292D:440 VEP84292A:450

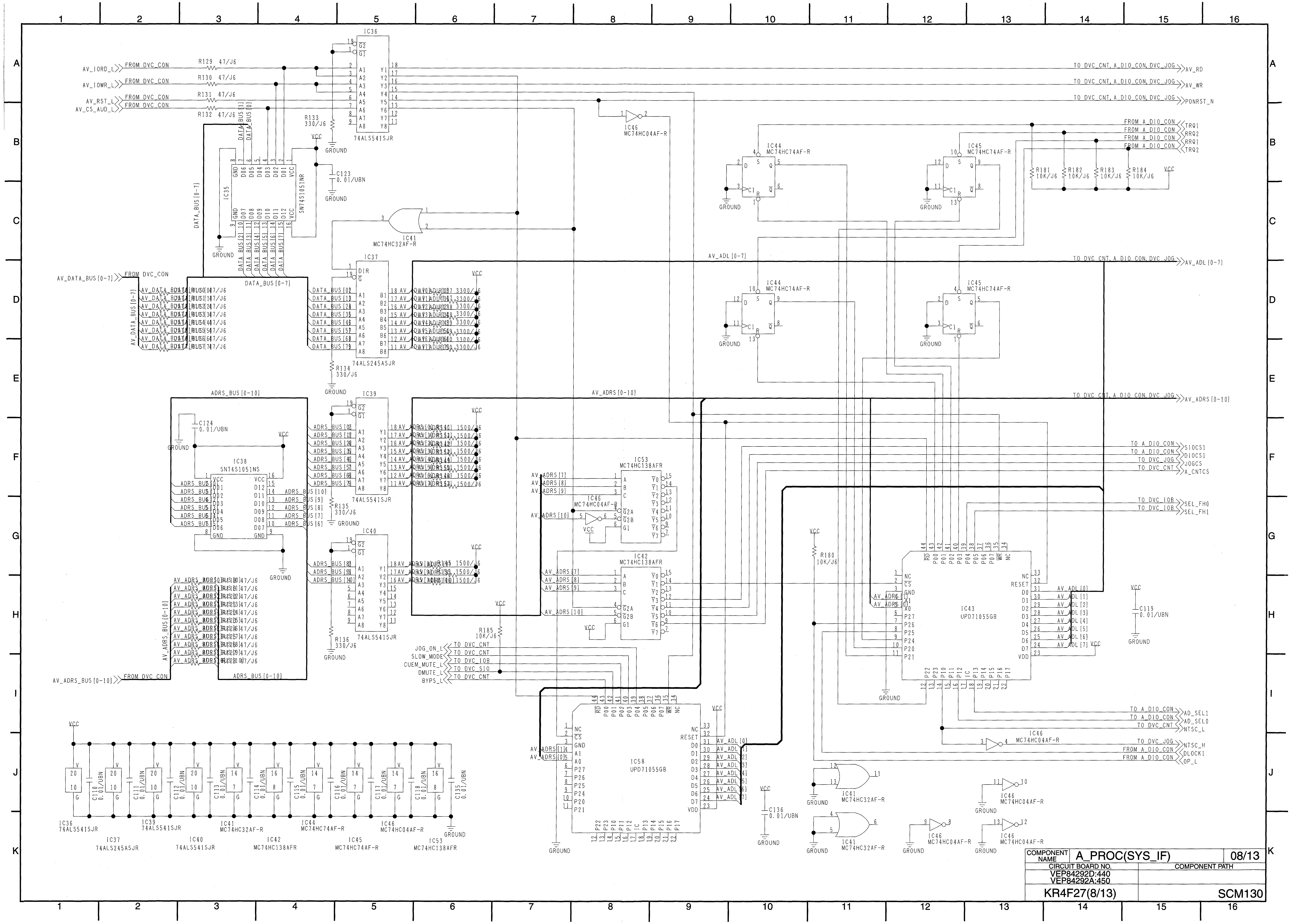
COMPONENT PATH

KR4F27(6/13)

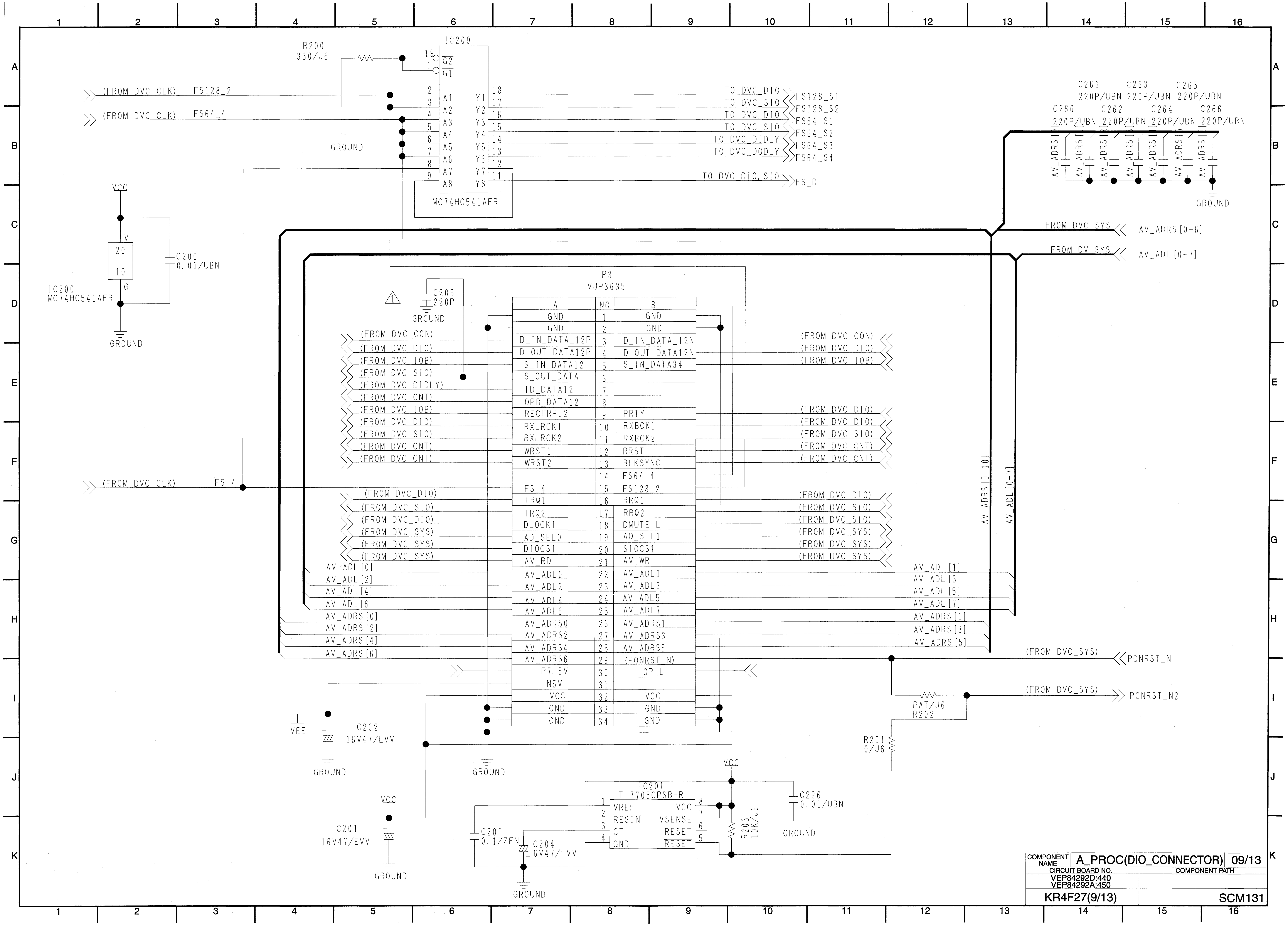
SCM128


FS256
FROM DVC_PLL
0/J6
R100
R101
PAT/J6
R102
PAT/J6
R104
330/J6
IC30
19
G2
1
G1
2
A1
3
A2
4
A3
5
A4
6
A5
7
A6
8
A7
9
A8
Y1
18
Y2
17
Y3
16
Y4
15
Y5
14
Y6
13
Y7
12
Y8
11
MC74HC541AFR
TP19
EYF6CU
TO DVC_IOB
FS256_1
TO DVC_IOB
FS256_2
TO DVC_IOB
FS_1
TO DVC_CNT
FS_2
TO DVC_CNT
FS_3
TO A_DIO_CON
FS_4
FS_M
FROM DVC_CNT
GROUND
1
2
IC34
MC74HC04AF-R
TO DVC_IOB
FS_1-
R103
330/J6
IC31
MC74HC541AFR
TP20
EYF6CU
TO DVC_IOB
FS64_1
TO DVC_CNT
FS64_2
TO DVC_CNT
FS64_3
TO A_DIO_CON
FS64_4
TO DVC_AIDLY
FS64_5
TO DVC_IOB
FS128_1
TO A_DIO_CON
FS128_2
FS64_M
FROM DVC_CNT
FS128_M
FROM DVC_CNT
GROUND
VCC
V
20
10
G
C100
0.01/UBN
C101
0.01/UBN
C102
0.01/UBN
14
7
IC30
MC74HC541AFR
IC31
MC74HC541AFR
IC34
MC74HC04AF-R
GROUND
5
6
3
4
9
8
11
10
IC34
MC74HC04AF-R
GROUND

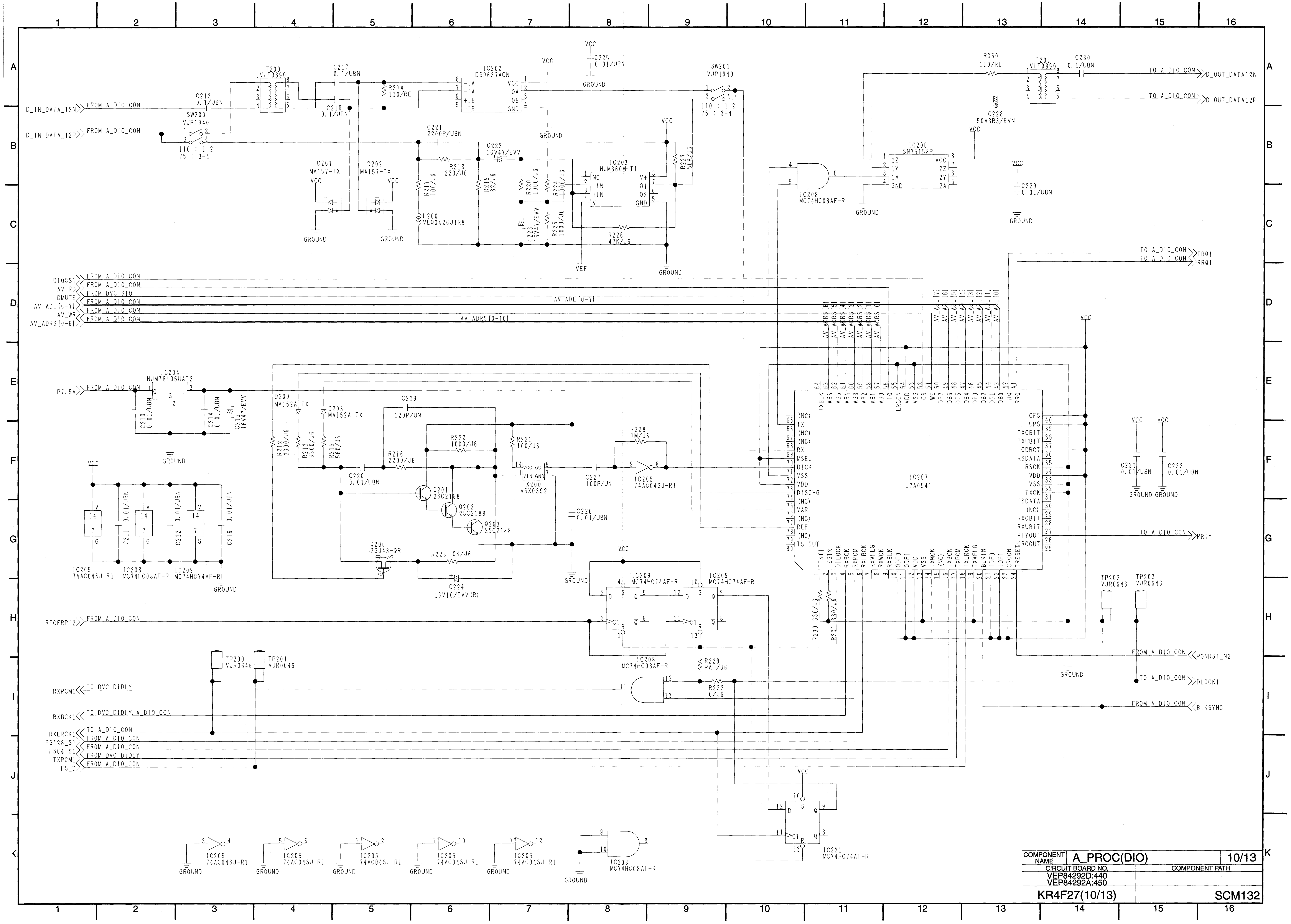
COMPONENT NAME	A_PROC(CLK_BUFFER)	07/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(7/13)	SCM129	


IC36 74ALS541SJR
IC35 SN74S1051NR
IC37 74ALS245ASJR
IC38 SN74S1051NS
IC39 74ALS541SJR
IC40 74ALS541SJR
IC41 MC74HC32AF-R
IC42 MC74HC138AFR
IC53 MC74HC138AFR
IC44 MC74HC74AF-R
IC45 MC74HC74AF-R
IC46 MC74HC04AF-R
IC43 UPD71055GB
IC58 UPD71055GB
AV_IORD_L FROM DVC_CON
AV_IOWR_L FROM DVC_CON
AV_RST_L FROM DVC_CON
AV_CS_AUD_L FROM DVC_CON
R129 47/J6
R130 47/J6
R131 47/J6
R132 47/J6
R133 330/J6
R134 330/J6
R135 330/J6
R136 330/J6
C123 0.01/UBN
C124 0.01/UBN
C119 0.01/UBN
C136 0.01/UBN
DATA_BUS[0-7]
AV_DATA_BUS[0-7] FROM DVC_CON
ADRS_BUS[0-10]
AV_ADRS_BUS[0-10] FROM DVC_CON
AV_ADRS[0-10]
AV_ADL[0-7]
TO DVC_CNT, A_DIO_CON, DVC_JOG AV_RD
TO DVC_CNT, A_DIO_CON, DVC_JOG AV_WR
TO DVC_CNT, A_DIO_CON, DVC_JOG PONRST_N
TO DVC_CNT, A_DIO_CON, DVC_JOG AV_ADL[0-7]
TO DVC_CNT, A_DIO_CON, DVC_JOG AV_ADRS[0-10]
FROM A_DIO_CON TRQ1
FROM A_DIO_CON RRQ2
FROM A_DIO_CON RRQ1
FROM A_DIO_CON TRQ2
R181 10K/J6
R182 10K/J6
R183 10K/J6
R184 10K/J6
R180 10K/J6
R185 10K/J6
TO A_DIO_CON SIOCS1
TO A_DIO_CON DIOCS1
TO DVC_JOG JOGCS
TO DVC_CNT A_CNTCS
TO DVC_IOB SEL_FH0
TO DVC_IOB SEL_FH1
JOG_ON_L TO DVC_CNT
SLOW_MODE TO DVC_CNT
CUEM_MUTE_L TO DVC_IOB
DMUTE_L TO DVC_SIO
BYPS_L TO DVC_CNT
TO A_DIO_CON AD_SEL1
TO A_DIO_CON AD_SEL0
TO DVC_CNT NTSC_L
TO DVC_JOG NTSC_H
FROM A_DIO_CON DLOCK1
FROM A_DIO_CON OP_L
VCC
GROUND
C110 0.01/UBN
C111 0.01/UBN
C112 0.01/UBN
C113 0.01/UBN
C114 0.01/UBN
C115 0.01/UBN
C116 0.01/UBN
C117 0.01/UBN
C118 0.01/UBN
C135 0.01/UBN
IC36 74ALS541SJR
IC37 74ALS245ASJR
IC39 74ALS541SJR
IC40 74ALS541SJR
IC41 MC74HC32AF-R
IC42 MC74HC138AFR
IC44 MC74HC74AF-R
IC45 MC74HC74AF-R
IC46 MC74HC04AF-R
IC53 MC74HC138AFR

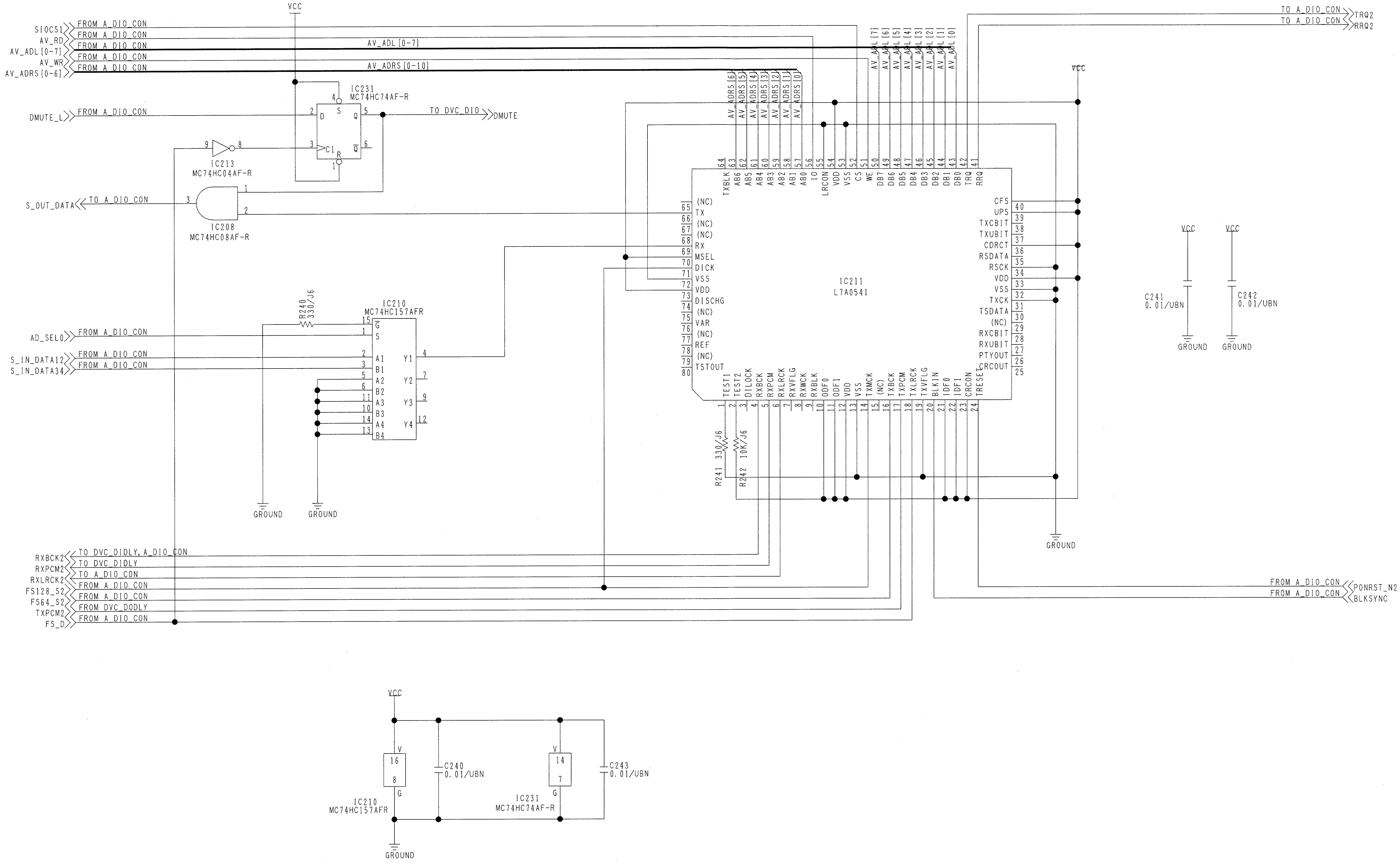
COMPONENT NAME	A_PROC(SYS_IF)	08/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(8/13)		SCM130


R200
330/J6
IC200
G2
G1
(FROM DVC CLK) FS128_2
(FROM DVC CLK) FS64_4
A1 A2 A3 A4 A5 A6 A7 A8
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
GROUND
MC74HC541AFR
TO DVC_DIO FS128_S1
TO DVC_SIO FS128_S2
TO DVC_DIO FS64_S1
TO DVC_SIO FS64_S2
TO DVC_DIDLY FS64_S3
TO DVC_DODLY FS64_S4
TO DVC_DIO, SIO FS_D
C261 C263 C265
220P/UBN 220P/UBN 220P/UBN
C260 C262 C264 C266
220P/UBN 220P/UBN 220P/UBN 220P/UBN
AV_ADRS[0] AV_ADRS[1] AV_ADRS[2] AV_ADRS[3] AV_ADRS[4] AV_ADRS[5] AV_ADRS[6]
GROUND
VCC
C200
0.01/UBN
IC200
MC74HC541AFR
GROUND
FROM DVC SYS AV_ADRS[0-6]
FROM DV SYS AV_ADL[0-7]
P3
VJP3635
C205
220P
GROUND
A NO B
GND 1 GND
GND 2 GND
D_IN_DATA_12P 3 D_IN_DATA_12N
D_OUT_DATA12P 4 D_OUT_DATA12N
S_IN_DATA12 5 S_IN_DATA34
S_OUT_DATA 6
ID_DATA12 7
OPB_DATA12 8
RECFRPI2 9 PRTY
RXLRCK1 10 RXBCK1
RXLRCK2 11 RXBCK2
WRST1 12 RRST
WRST2 13 BLKSYNC
14 FS64_4
FS_4 15 FS128_2
TRQ1 16 RRQ1
TRQ2 17 RRQ2
DLOCK1 18 DMUTE_L
AD_SEL0 19 AD_SEL1
DIOCS1 20 SIOCS1
AV_RD 21 AV_WR
AV_ADL0 22 AV_ADL1
AV_ADL2 23 AV_ADL3
AV_ADL4 24 AV_ADL5
AV_ADL6 25 AV_ADL7
AV_ADRS0 26 AV_ADRS1
AV_ADRS2 27 AV_ADRS3
AV_ADRS4 28 AV_ADRS5
AV_ADRS6 29 (PONRST_N)
P7.5V 30 OP_L
N5V 31
VCC 32 VCC
GND 33 GND
GND 34 GND
(FROM DVC_CON)
(FROM DVC DIO)
(FROM DVC IOB)
(FROM DVC SIO)
(FROM DVC DIDLY)
(FROM DVC CNT)
(FROM DVC IOB)
(FROM DVC DIO)
(FROM DVC SIO)
(FROM DVC CNT)
(FROM DVC CNT)
(FROM DVC CLK) FS_4
(FROM DVC_DIO)
(FROM DVC_SIO)
(FROM DVC_DIO)
(FROM DVC_SYS)
(FROM DVC_SYS)
(FROM DVC_SYS)
AV_ADL[0] AV_ADL[2] AV_ADL[4] AV_ADL[6]
AV_ADRS[0] AV_ADRS[2] AV_ADRS[4] AV_ADRS[6]
(FROM DVC CON)
(FROM DVC DIO)
(FROM DVC IOB)
(FROM DVC DIO)
(FROM DVC DIO)
(FROM DVC SIO)
(FROM DVC CNT)
(FROM DVC CNT)
(FROM DVC DIO)
(FROM DVC SIO)
(FROM DVC SIO)
(FROM DVC_SYS)
(FROM DVC_SYS)
(FROM DVC_SYS)
AV_ADL[1] AV_ADL[3] AV_ADL[5] AV_ADL[7]
AV_ADRS[1] AV_ADRS[3] AV_ADRS[5]
AV_ADRS[0-10]
AV_ADL[0-7]
(FROM DVC_SYS) PONRST_N
(FROM DVC_SYS) PONRST_N2
PAT/J6
R202
R201
0/J6
VEE
C202
16V47/EVV
GROUND
GROUND
VCC
C201
16V47/EVV
GROUND
VCC
IC201
TL7705CPSB-R
VREF VCC
RESIN VSENSE
CT RESET
GND RESET
R203
10K/J6
C296
0.01/UBN
GROUND
C203
0.1/ZFN
C204
6V47/EVV
GROUND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

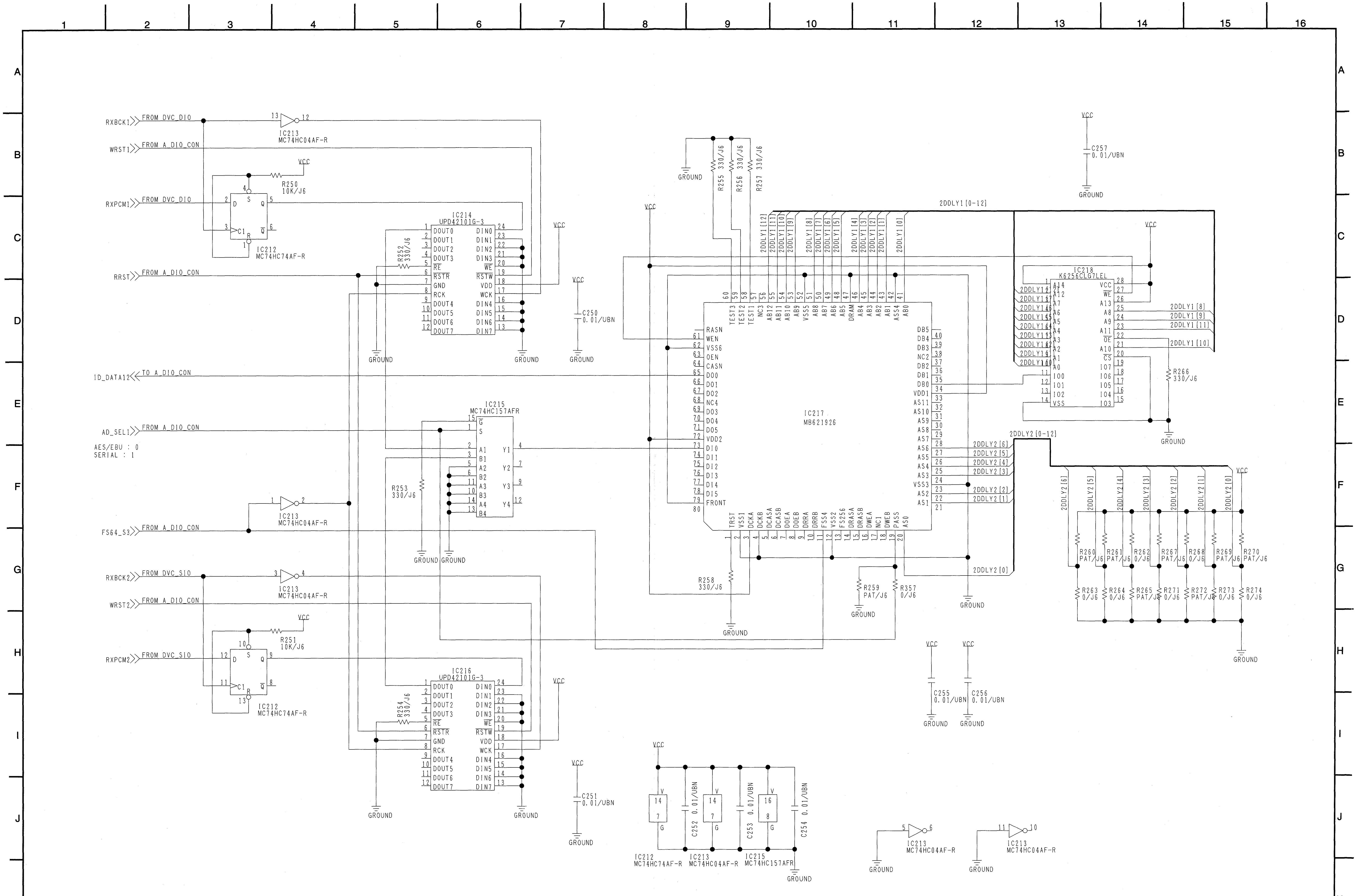
COMPONENT NAME A_PROC(DIO_CONNECTOR) 09/13
CIRCUIT BOARD NO. VEP84292D:440 VEP84292A:450
COMPONENT PATH
KR4F27(9/13)
SCM131


D_IN_DATA_12N
D_IN_DATA_12P
FROM A_DIO_CON
C213 0.1/UBN
SW200 VJP1940
110 : 1-2
75 : 3-4
T200 VLT0890
C217 0.1/UBN
C218 0.1/UBN
R214 110/RE
IC202 DS9637ACN
VCC
GROUND
C225 0.01/UBN
SW201 VJP1940
D201 MA157-TX
D202 MA157-TX
C221 2200P/UBN
C222 16V47/EVV
R218 220/J6
R217 100/J6
R219 82/J6
L200 VLQ0426J1R8
R220 1000/J6
R224 1000/J6
C223 16V47/EVV
R225 1000/J6
IC203 NJM360M-T1
R226 47K/J6
R227 56K/J6
VEE
R350 110/RE
T201 VLT0890
C230 0.1/UBN
TO A_DIO_CON
D_OUT_DATA12N
D_OUT_DATA12P
C228 50V3R3/EVN
IC206 SN75158P
IC208 MC74HC08AF-R
C229 0.01/UBN
TRQ1
RRQ1
DIOCS1
AV_RD
DMUTE
AV_ADL[0-7]
AV_WR
AV_ADRS[0-6]
FROM DVC_SIO
AV_ADRS[0-10]
P7.5V
IC204 NJM78L05UAT2
C210 0.01/UBN
C214 0.01/UBN
C215 16V47/EVV
D200 MA152A-TX
D203 MA152A-TX
C219 120P/UN
R212 3300/J6
R213 3300/J6
R215 560/J6
R222 1000/J6
R221 100/J6
R216 2200/J6
C220 0.01/UBN
Q201 2SC2188
Q202 2SC2188
Q203 2SC2188
X200 VSX0392
C226 0.01/UBN
C227 100P/UN
R228 1M/J6
IC205 74AC04SJ-R1
Q200 2SJ43-QR
R223 10K/J6
C224 16V10/EVV(R)
IC207 L7A0541
C211 0.01/UBN
C212 0.01/UBN
C216 0.01/UBN
IC209 MC74HC74AF-R
C231 0.01/UBN
C232 0.01/UBN
PRTY
RECFRP12
TP202 VJR0646
TP203 VJR0646
R230 330/J6
R231 330/J6
R229 PAT/J6
R232 0/J6
PONRST_N2
DLOCK1
BLKSYNC
TP200 VJR0646
TP201 VJR0646
RXPCM1
TO DVC_DIDLY
RXBCK1
TO DVC_DIDLY, A_DIO_CON
RXLRCK1
TO A_DIO_CON
FS128_S1
FS64_S1
FROM DVC_DIDLY
TXPCM1
FS_D
IC231 MC74HC74AF-R
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

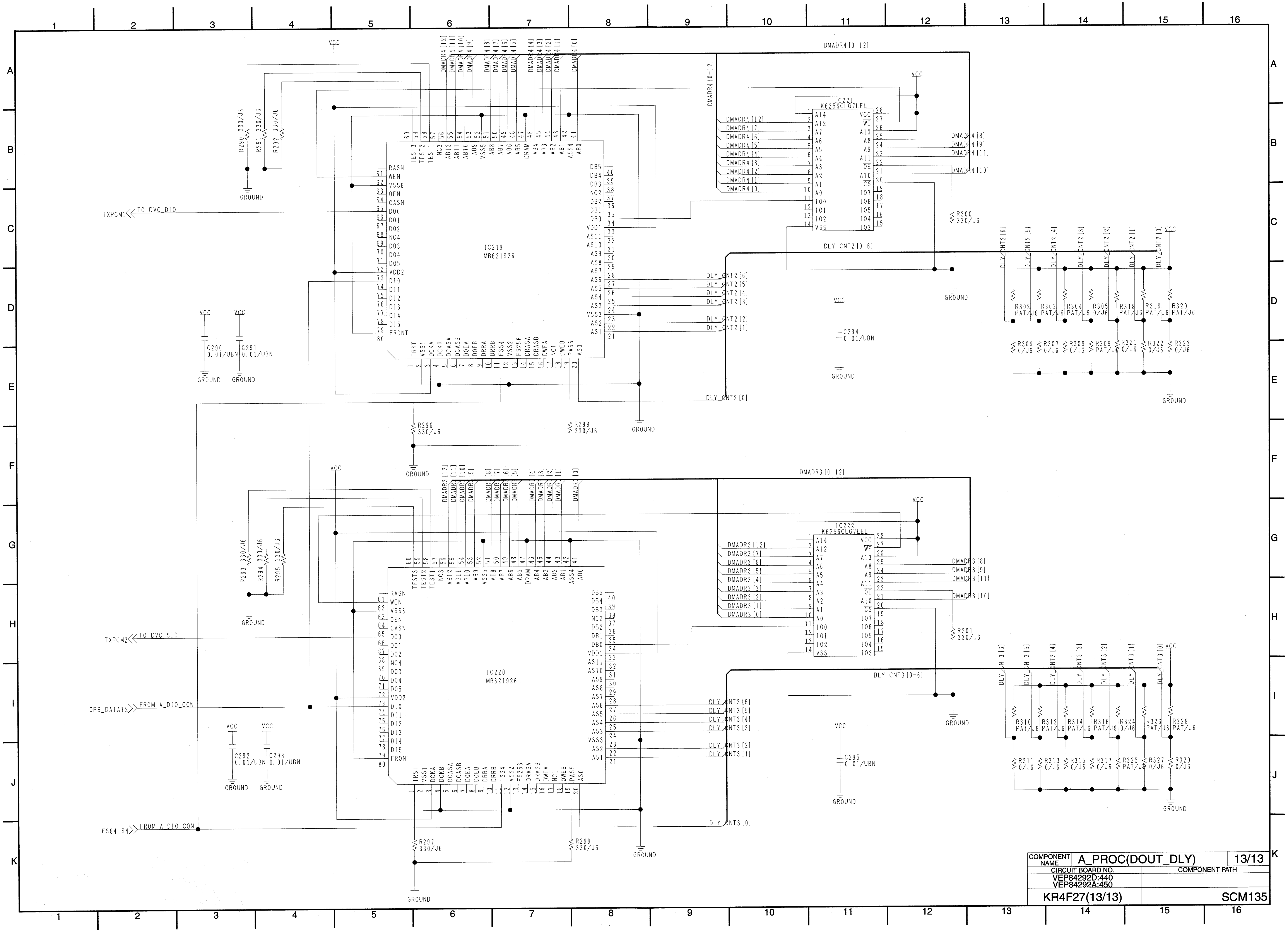
COMPONENT NAME	A_PROC(DIO)	10/13
CIRCUIT BOARD NO. VEP84292D:440 VEP84292A:450	COMPONENT PATH	
KR4F27(10/13)		SCM132


SIOCS1 FROM A_DIO_CON
AV_RD FROM A_DIO_CON
AV_ADL[0-7] FROM A_DIO_CON
AV_WR FROM A_DIO_CON
AV_ADRS[0-6] FROM A_DIO_CON
AV_ADL[0-7]
AV_ADRS[0-10]
VCC
IC231
MC74HC74AF-R
DMUTE_L FROM A_DIO_CON
TO DVC_DIO DMUTE
D S Q C1 R Q̄
IC213
MC74HC04AF-R
S_OUT_DATA TO A_DIO_CON
IC208
MC74HC08AF-R
R240
330/J6
IC210
MC74HC157AFR
AD_SEL0 FROM A_DIO_CON
S_IN_DATA12 FROM A_DIO_CON
S_IN_DATA34 FROM A_DIO_CON
G̅ S A1 B1 A2 B2 A3 B3 A4 B4 Y1 Y2 Y3 Y4
GROUND
GROUND
AV_ADRS[6] AV_ADRS[5] AV_ADRS[4] AV_ADRS[3] AV_ADRS[2] AV_ADRS[1] AV_ADRS[0]
AV_ADL[7] AV_ADL[6] AV_ADL[5] AV_ADL[4] AV_ADL[3] AV_ADL[2] AV_ADL[1] AV_ADL[0]
TXBLK AB6 AB5 AB4 AB3 AB2 AB1 AB0 IO LRCON VDD VSS CS WE DB7 DB6 DB5 DB4 DB3 DB2 DB1 DB0 TRQ RRQ
(NC) TX (NC) (NC) RX MSEL DICK VSS VDD DISCHG (NC) VAR (NC) REF (NC) TSTOUT
CFS UPS TXCBIT TXUBIT CDRCT RSDATA RSCK VDD VSS TXCK TSDATA (NC) RXCBIT RXUBIT PTYOUT CRCOUT
TEST1 TEST2 DILOCK RXBCK RXPCM RXLRCK RXVFLG RXWCK RXBLK ODF0 ODF1 VDD VSS TXMCK (NC) TXBCK TXPCM TXLRCK TXVFLG BLKIN IDF0 IDF1 CRCON TRESET
IC211
L7A0541
TO A_DIO_CON TRQ2
TO A_DIO_CON RRQ2
VCC
R241 330/J6
R242 10K/J6
GROUND
VCC VCC
C241
0.01/UBN
C242
0.01/UBN
GROUND GROUND
RXBCK2 TO DVC_DIDLY, A_DIO_CON
RXPCM2 TO DVC_DIDLY
RXLRCK2 TO A_DIO_CON
FS128_S2 FROM A_DIO_CON
FS64_S2 FROM A_DIO_CON
TXPCM2 FROM DVC_DODLY
FS_D FROM A_DIO_CON
FROM A_DIO_CON PONRST_N2
FROM A_DIO_CON BLKSYNC
VCC
V 16 8 G
IC210
MC74HC157AFR
C240
0.01/UBN
V 14 7 G
IC231
MC74HC74AF-R
C243
0.01/UBN
GROUND

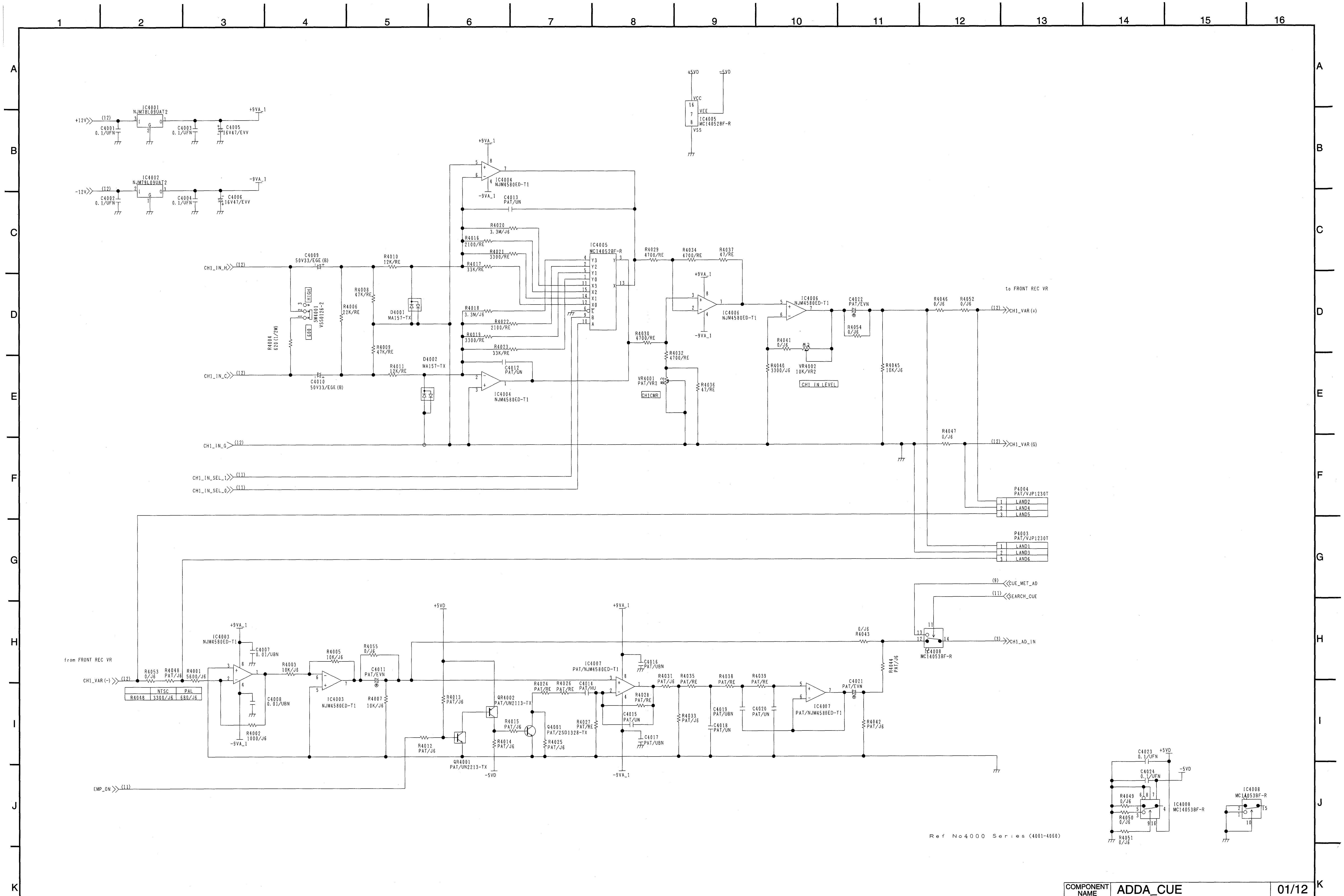
COMPONENT NAME	A_PROC(SIO)	11/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(11/13)	SCM133	


RXBCK1
FROM DVC_DIO
WRST1
FROM A_DIO_CON
RXPCM1
RRST
ID_DATA12
TO A_DIO_CON
AD_SEL1
AES/EBU : 0
SERIAL : 1
FS64_S3
RXBCK2
FROM DVC_SIO
WRST2
RXPCM2
IC212
MC74HC74AF-R
IC213
MC74HC04AF-R
IC214
UPD42101G-3
IC215
MC74HC157AFR
IC216
UPD42101G-3
IC217
MB621926
IC218
K6256CLG7LEL
R250
10K/J6
R251
10K/J6
R252
330/J6
R253
330/J6
R254
330/J6
R255 330/J6
R256 330/J6
R257 330/J6
R258
330/J6
R259
PAT/J6
R357
0/J6
R266
330/J6
C250
0.01/UBN
C251
0.01/UBN
C252 0.01/UBN
C253 0.01/UBN
C254 0.01/UBN
C255
0.01/UBN
C256
0.01/UBN
C257
0.01/UBN
2DDLY1[0-12]
2DDLY2[0-12]
VCC
GROUND

COMPONENT NAME	A_PROC(DIN_DLY)	12/13
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84292D:440 VEP84292A:450		
KR4F27(12/13)		SCM134


IC219
MB621926
IC220
MB621926
IC221
K6256CLG7LEL
IC222
K6256CLG7LEL
DMADR4 [0-12]
DMADR3 [0-12]
DLY_CNT2 [0-6]
DLY_CNT3 [0-6]
TXPCM1 TO DVC_DIO
TXPCM2 TO DVC_SIO
OPB_DATA12 FROM A_DIO_CON
FS64_S4 FROM A_DIO_CON
VCC
GROUND
R290 330/J6
R291 330/J6
R292 330/J6
R293 330/J6
R294 330/J6
R295 330/J6
R296 330/J6
R297 330/J6
R298 330/J6
R299 330/J6
R300 330/J6
R301 330/J6
C290 0.01/UBN
C291 0.01/UBN
C292 0.01/UBN
C293 0.01/UBN
C294 0.01/UBN
C295 0.01/UBN
R302 PAT/J6
R303 PAT/J6
R304 PAT/J6
R305 0/J6
R318 PAT/J6
R319 PAT/J6
R320 PAT/J6
R306 0/J6
R307 0/J6
R308 0/J6
R309 PAT/J6
R321 0/J6
R322 0/J6
R323 0/J6
R310 PAT/J6
R312 PAT/J6
R314 PAT/J6
R316 PAT/J6
R324 0/J6
R326 PAT/J6
R328 PAT/J6
R311 0/J6
R313 0/J6
R315 0/J6
R317 0/J6
R325 PAT/J6
R327 0/J6
R329 0/J6
RASN
WEN
VSS6
OEN
CASN
DO0
DO1
DO2
NC4
DO3
DO4
DO5
VDD2
DI0
DI1
DI2
DI3
DI4
DI5
FRONT
TRST
VSS1
DCKA
DCKB
DCASA
DCASB
DOEA
DOEB
DRRA
DRRB
FSS4
VSS2
FS256
DRASA
DRASB
DWEA
NC1
DWEB
PASS
AS0
TEST3
TEST2
TEST1
NC3
AB12
AB11
AB10
AB9
VSS5
AB8
AB7
AB6
AB5
DRAM
AB4
AB3
AB2
AB1
ASS4
AB0
DB5
DB4
DB3
NC2
DB2
DB1
DB0
VDD1
AS11
AS10
AS9
AS8
AS7
AS6
AS5
AS4
AS3
VSS3
AS2
AS1
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
IO0
IO1
IO2
VSS
VCC
WE
A13
A8
A9
A11
OE
A10
CS
IO7
IO6
IO5
IO4
IO3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

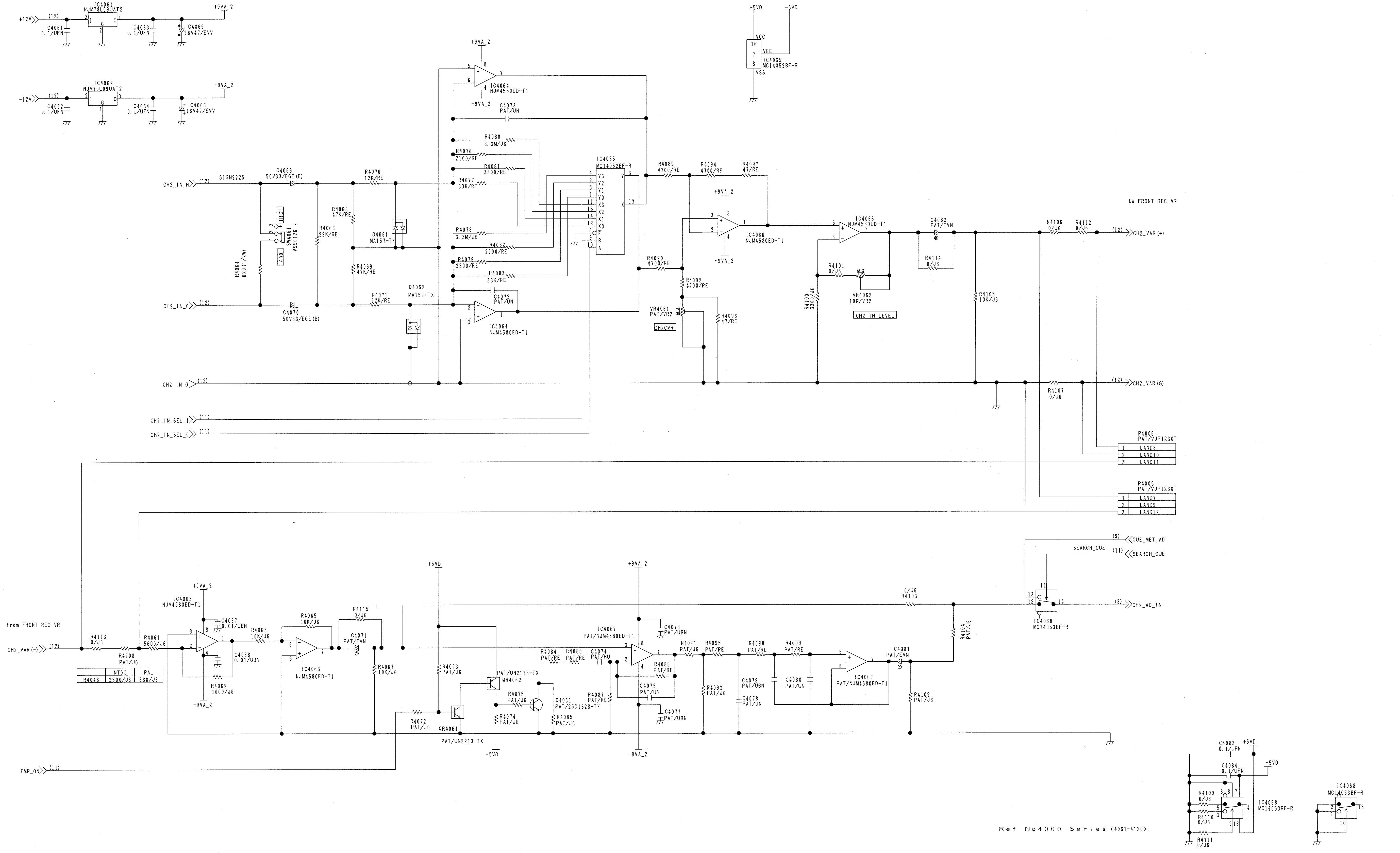
COMPONENT NAME	A_PROC(DOUT_DLY)	13/13
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84292D:440 VEP84292A:450		
KR4F27(13/13)	SCM135	


IC4001
NJM78L09UAT2
+12V
+9VA_1
C4001
0.1/UFN
C4003
0.1/UFN
C4005
16V47/EVV
IC4002
NJM79L09UAT2
-12V
-9VA_1
C4002
0.1/UFN
C4004
0.1/UFN
C4006
16V47/EVV
+5VD
-5VD
VCC
VEE
VSS
IC4005
MC14052BF-R
IC4004
NJM4580ED-T1
C4013
PAT/UN
R4020
3.3M/J6
R4016
2100/RE
R4021
3300/RE
R4017
33K/RE
IC4005
MC14052BF-R
R4029
4700/RE
R4034
4700/RE
R4037
47/RE
CH1_IN_H
C4009
50V33/EGE(B)
R4010
12K/RE
R4008
47K/RE
R4006
22K/RE
D4001
MA157-TX
R4018
3.3M/J6
R4022
2100/RE
R4019
3300/RE
R4023
33K/RE
SW4001
VSS0126-2
HIGH
LOW
R4004
620(1/2W)
R4009
47K/RE
R4011
12K/RE
D4002
MA157-TX
C4012
PAT/UN
CH1_IN_C
C4010
50V33/EGE(B)
IC4004
NJM4580ED-T1
IC4006
NJM4580ED-T1
R4030
4700/RE
R4032
4700/RE
VR4001
PAT/VR2
CH1CMR
R4036
47/RE
to FRONT REC VR
C4022
PAT/EVN
R4054
0/J6
R4046
0/J6
R4052
0/J6
CH1_VAR(+)
R4041
0/J6
R4040
3300/J6
VR4002
10K/VR2
CH1 IN LEVEL
R4045
10K/J6
R4047
0/J6
CH1_IN_G
CH1_VAR(G)
CH1_IN_SEL_1
CH1_IN_SEL_0
P4004
PAT/VJP1230T
LAND2
LAND4
LAND5
P4003
PAT/VJP1230T
LAND1
LAND3
LAND6
CUE_MET_AD
SEARCH_CUE
R4043
0/J6
R4044
PAT/J6
IC4008
MC14053BF-R
CH1_AD_IN
from FRONT REC VR
CH1_VAR(-)
R4053
0/J6
R4048
PAT/J6
R4001
5600/J6
IC4003
NJM4580ED-T1
C4007
0.01/UBN
C4008
0.01/UBN
R4002
1000/J6
R4003
10K/J6
R4005
10K/J6
R4055
0/J6
C4011
PAT/EVN
R4007
10K/J6
R4013
PAT/J6
QR4002
PAT/UN2113-TX
R4012
PAT/J6
QR4001
PAT/UN2213-TX
R4014
PAT/J6
R4015
PAT/J6
Q4001
PAT/2SD1328-TX
R4025
PAT/J6
R4024
PAT/RE
R4026
PAT/RE
C4014
PAT/HU
R4027
PAT/RE
IC4007
PAT/NJM4580ED-T1
C4016
PAT/UBN
R4028
PAT/RE
C4015
PAT/UN
C4017
PAT/UBN
R4031
PAT/J6
R4035
PAT/RE
R4033
PAT/J6
C4019
PAT/UBN
C4018
PAT/UN
R4038
PAT/RE
R4039
PAT/RE
C4020
PAT/UN
IC4007
PAT/NJM4580ED-T1
C4021
PAT/EVN
R4042
PAT/J6
EMP_ON
C4023
0.1/UFN
C4024
0.1/UFN
R4049
0/J6
R4050
0/J6
R4051
0/J6
IC4008
MC14053BF-R

	NTSC	PAL
R4048	3300/J6	680/J6

Ref No4000 Series (4001-4060)

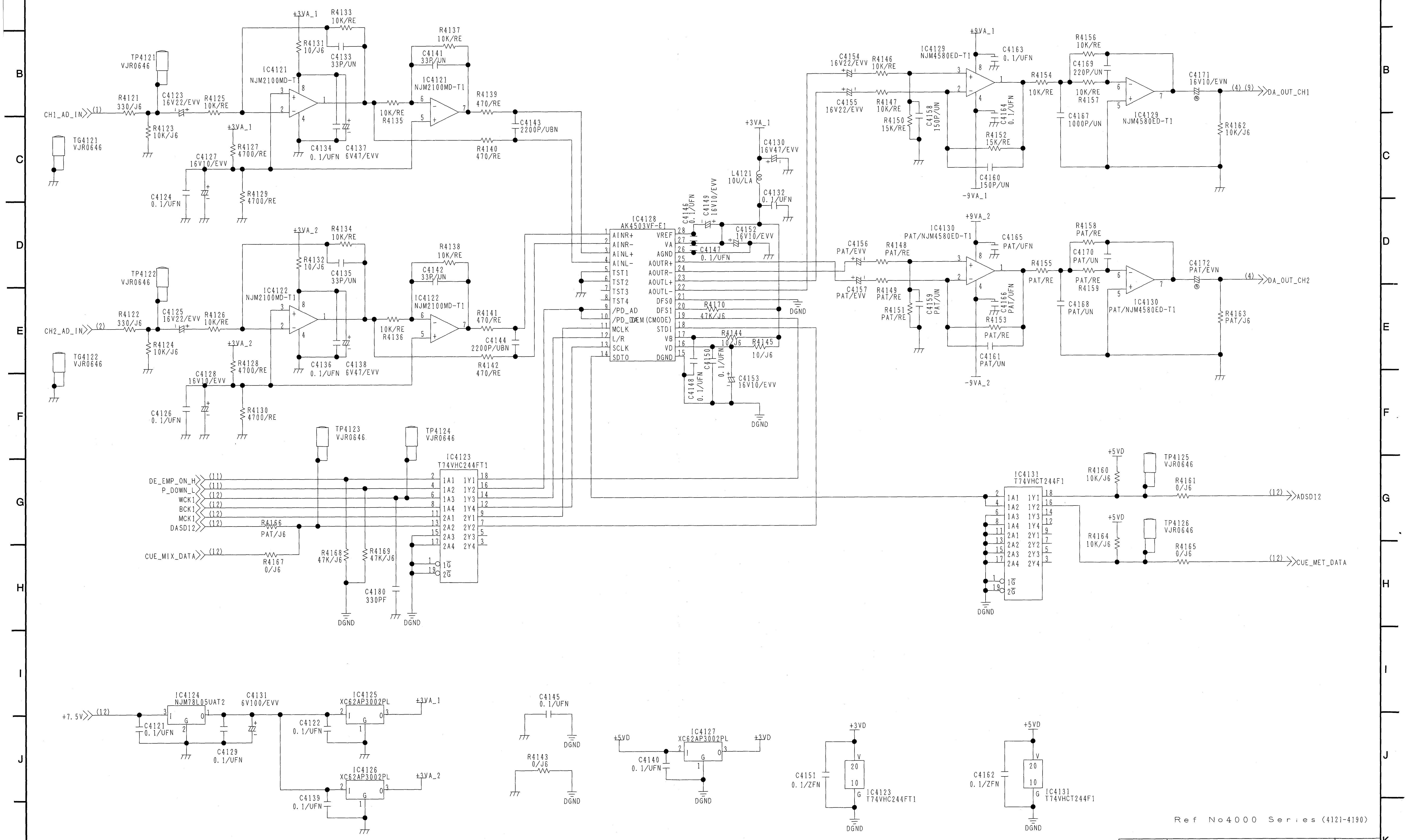
COMPONENT NAME	ADDA_CUE	01/12
CIRCUIT BOARD NO.		COMPONENT PATH
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(1/12)-1		SCM136


IC4061
NJM78L09UAT2
+12V
(12)
C4061
0.1/UFN
C4063
0.1/UFN
C4065
16V47/EVV
+9VA_2
IC4062
NJM79L09UAT2
-12V
C4062
0.1/UFN
C4064
0.1/UFN
C4066
16V47/EVV
-9VA_2
IC4064
NJM4580ED-T1
C4073
PAT/UN
R4080
3.3M/J6
R4076
2100/RE
R4081
3300/RE
R4077
33K/RE
R4078
3.3M/J6
R4082
2100/RE
R4079
3300/RE
R4083
33K/RE
C4072
PAT/UN
IC4065
MC14052BF-R
Y3
Y2
Y1
Y0
X3
X2
X1
X0
E
B
A
Y
X
CH2_IN_H
SIGN2225
C4069
50V33/EGE(B)
R4070
12K/RE
HIGH
SW4061
VSS0126-2
600
R4064
620(1/2W)
R4066
22K/RE
R4068
47K/RE
R4069
47K/RE
D4061
MA157-TX
D4062
MA157-TX
R4071
12K/RE
CH2_IN_C
C4070
50V33/EGE(B)
CH2_IN_G
CH2_IN_SEL_1
(11)
CH2_IN_SEL_0
+5VD
-5VD
VCC
VEE
VSS
R4089
4700/RE
R4094
4700/RE
R4097
47/RE
IC4066
NJM4580ED-T1
R4090
4700/RE
R4092
4700/RE
VR4061
PAT/VR2
CH2CMR
R4096
47/RE
R4100
3300/J6
R4101
0/J6
VR4062
10K/VR2
CH2 IN LEVEL
C4082
PAT/EVN
R4114
0/J6
R4105
10K/J6
to FRONT REC VR
R4106
0/J6
R4112
0/J6
CH2_VAR(+)
R4107
0/J6
CH2_VAR(G)
P4006
PAT/VJP1230T
LAND8
LAND10
LAND11
P4005
PAT/VJP1230T
LAND7
LAND9
LAND12
(9)
CUE_MET_AD
SEARCH_CUE
SEARCH_CUE
0/J6
R4103
(3)
CH2_AD_IN
IC4068
MC14053BF-R
from FRONT REC VR
CH2_VAR(-)
R4113
0/J6
R4108
PAT/J6
R4061
5600/J6
IC4063
NJM4580ED-T1
C4067
0.01/UBN
C4068
0.01/UBN
R4062
1000/J6
R4063
10K/J6
R4065
10K/J6
R4115
0/J6
C4071
PAT/EVN
R4067
10K/J6
R4073
PAT/J6
PAT/UN2113-TX
QR4062
R4072
PAT/J6
QR4061
PAT/UN2213-TX
R4075
PAT/J6
R4074
PAT/J6
Q4061
PAT/2SD1328-TX
R4085
PAT/J6
R4084
PAT/RE
R4086
PAT/RE
C4074
PAT/HU
R4087
PAT/RE
IC4067
PAT/NJM4580ED-T1
C4076
PAT/UBN
R4088
PAT/RE
C4075
PAT/UN
C4077
PAT/UBN
R4091
PAT/J6
R4095
PAT/RE
R4093
PAT/J6
R4098
PAT/RE
C4079
PAT/UBN
C4078
PAT/UN
R4099
PAT/RE
C4080
PAT/UN
C4081
PAT/EVN
R4102
PAT/J6
R4104
PAT/J6
EMP_ON
C4083
0.1/UFN
C4084
0.1/UFN
R4109
0/J6
R4110
0/J6
R4111
0/J6

	NTSC	PAL
R4048	3300/J6	680/J6

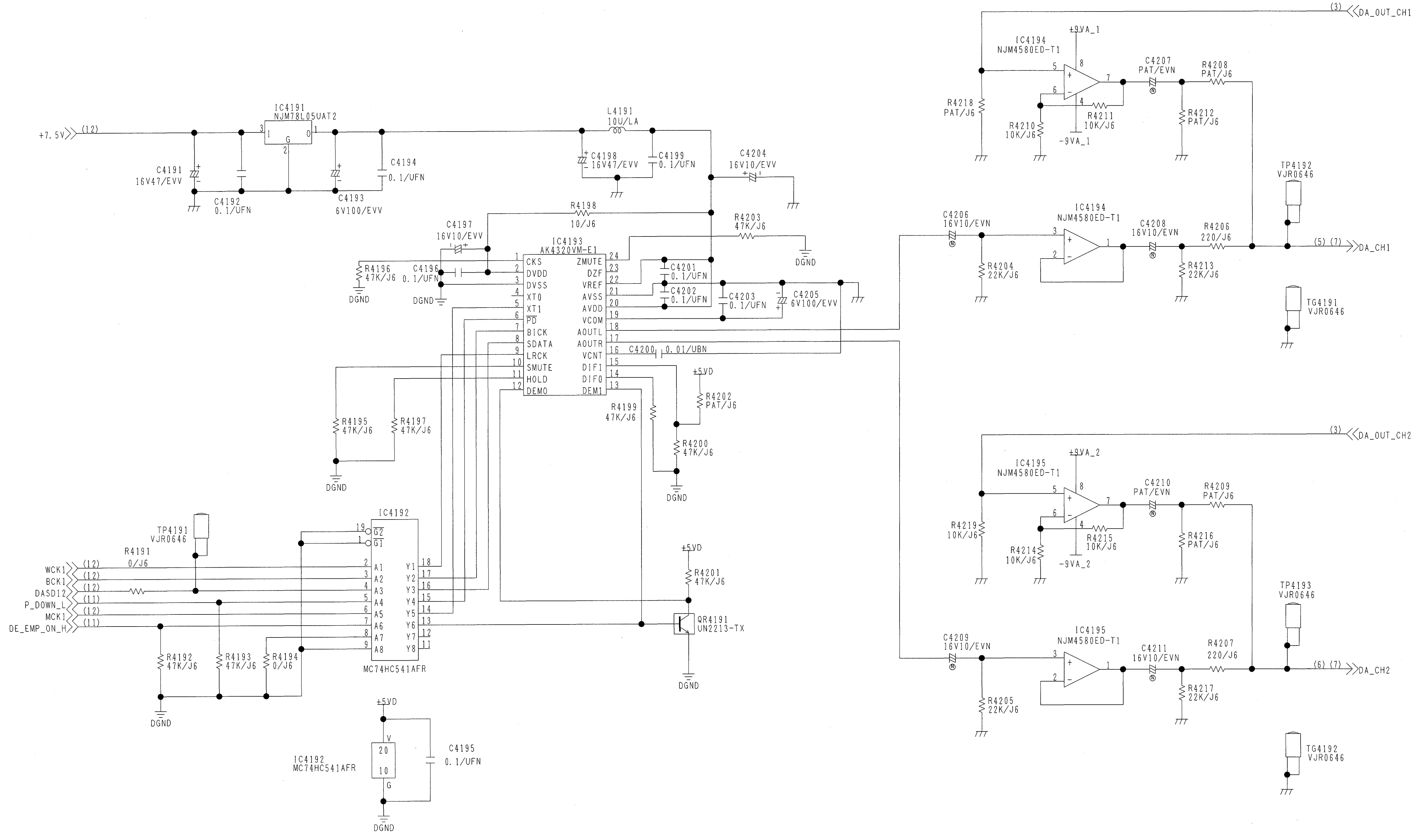
Ref No4000 Series (4061-4120)

COMPONENT NAME	ADDA_CUE	02/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(2/12)-1	SCM137	


CH1_AD_IN
CH2_AD_IN
TP4121 VJR0646
TG4121 VJR0646
TP4122 VJR0646
TG4122 VJR0646
R4121 330/J6
R4122 330/J6
R4123 10K/J6
R4124 10K/J6
C4123 16V22/EVV
C4125 16V22/EVV
R4125 10K/RE
R4126 10K/RE
C4124 0.1/UFN
C4126 0.1/UFN
C4127 16V10/EVV
C4128 16V10/EVV
R4127 4700/RE
R4128 4700/RE
R4129 4700/RE
R4130 4700/RE
+3VA_1
+3VA_2
IC4121 NJM2100MD-T1
IC4122 NJM2100MD-T1
R4131 10/J6
R4132 10/J6
R4133 10K/RE
R4134 10K/RE
C4133 33P/UN
C4135 33P/UN
C4134 0.1/UFN
C4136 0.1/UFN
C4137 6V47/EVV
C4138 6V47/EVV
R4135 10K/RE
R4136 10K/RE
R4137 10K/RE
R4138 10K/RE
C4141 33P/UN
C4142 33P/UN
R4139 470/RE
R4140 470/RE
R4141 470/RE
R4142 470/RE
C4143 2200P/UBN
C4144 2200P/UBN
IC4128 AK4503VF-E1
AINR+ AINR- AINL+ AINL- TST1 TST2 TST3 TST4 /PD_AD /PD_DA MCLK L/R SCLK SDTO
VREF VA AGND AOUTR+ AOUTR- AOUTL+ AOUTL- DFS0 DFS1 DEM(CMODE) STDI VB VD DGND
C4146 0.1/UFN
C4149 16V10/EVV
C4147 0.1/UFN
C4152 16V10/EVV
+3VA_1
C4130 16V47/EVV
L4121 10U/LA
C4132 0.1/UFN
R4170 47K/J6
R4144 10/J6
R4145 10/J6
C4148 0.1/UFN
C4150 0.1/UFN
C4153 16V10/EVV
DGND
C4154 16V22/EVV
C4155 16V22/EVV
R4146 10K/RE
R4147 10K/RE
R4150 15K/RE
C4158 150P/UN
IC4129 NJM4580ED-T1
+9VA_1
-9VA_1
C4163 0.1/UFN
C4164 0.1/UFN
R4152 15K/RE
C4160 150P/UN
R4154 10K/RE
R4156 10K/RE
C4169 220P/UN
R4157 10K/RE
C4167 1000P/UN
C4171 16V10/EVN
R4162 10K/J6
DA_OUT_CH1
C4156 PAT/EVV
C4157 PAT/EVV
R4148 PAT/RE
R4149 PAT/RE
R4151 PAT/RE
C4159 PAT/UN
IC4130 PAT/NJM4580ED-T1
+9VA_2
-9VA_2
C4165 PAT/UFN
C4166 PAT/UFN
R4153 PAT/RE
C4161 PAT/UN
R4155 PAT/RE
R4158 PAT/RE
C4170 PAT/UN
R4159 PAT/RE
C4168 PAT/UN
C4172 PAT/EVN
R4163 PAT/J6
DA_OUT_CH2
TP4123 VJR0646
TP4124 VJR0646
IC4123 T74VHC244FT1
DE_EMP_ON_H
P_DOWN_L
WCK1
BCK1
MCK1
DASD12
R4166 PAT/J6
CUE_MIX_DATA
R4167 0/J6
R4168 47K/J6
R4169 47K/J6
C4180 330PF
IC4131 T74VHCT244F1
+5VD
R4160 10K/J6
TP4125 VJR0646
R4161 0/J6
ADSD12
R4164 10K/J6
TP4126 VJR0646
R4165 0/J6
CUE_MET_DATA
+7.5V
IC4124 NJM78L05UAT2
C4121 0.1/UFN
C4129 0.1/UFN
C4131 6V100/EVV
IC4125 XC62AP3002PL
C4122 0.1/UFN
IC4126 XC62AP3002PL
C4139 0.1/UFN
C4145 0.1/UFN
R4143 0/J6
IC4127 XC62AP3002PL
+5VD
+3VD
C4140 0.1/UFN
C4151 0.1/ZFN
IC4123 T74VHC244FT1
C4162 0.1/ZFN
IC4131 T74VHCT244F1

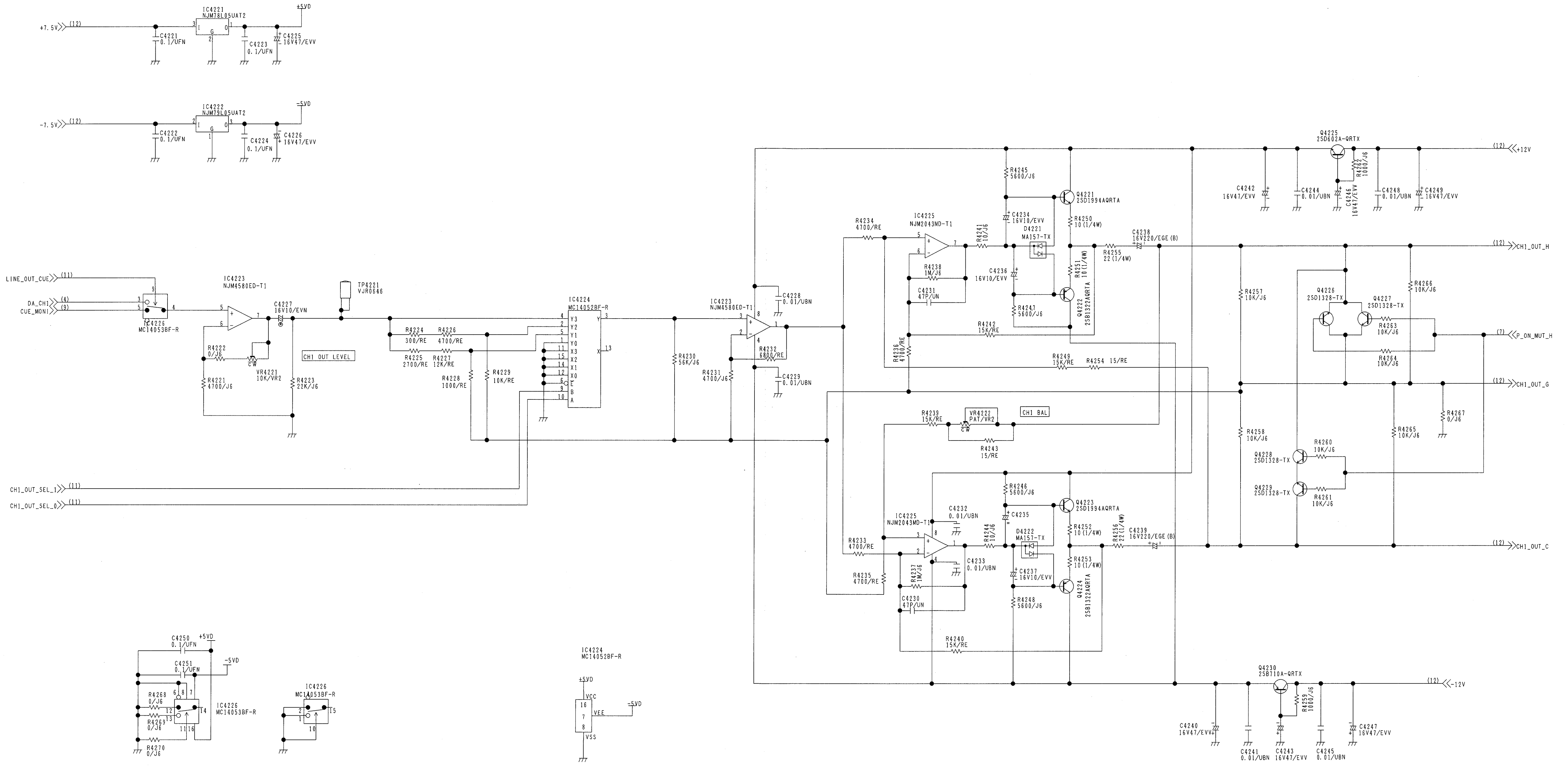
Ref No4000 Series (4121-4190)

COMPONENT NAME	ADDA_CUE	03/12
CIRCUIT BOARD NO. VEP84293A:NTSC VEP84293B:PAL	COMPONENT PATH	
KR4F28(3/12)-1		SCM138


+7.5V (12)
IC4191
NJM78L05UAT2
C4191
16V47/EVV
C4192
0.1/UFN
C4193
6V100/EVV
C4194
0.1/UFN
L4191
10U/LA
C4198
16V47/EVV
C4199
0.1/UFN
C4204
16V10/EVV
R4198
10/J6
C4197
16V10/EVV
R4196
47K/J6
C4196
0.1/UFN
DGND
IC4193
AK4320VM-E1
CKS
DVDD
DVSS
XT0
XT1
PD
BICK
SDATA
LRCK
SMUTE
HOLD
DEMO
ZMUTE
DZF
VREF
AVSS
AVDD
VCOM
AOUTL
AOUTR
VCNT
DIF1
DIF0
DEM1
R4203
47K/J6
C4201
0.1/UFN
C4202
0.1/UFN
C4203
0.1/UFN
C4205
6V100/EVV
C4200
0.01/UBN
+5VD
R4202
PAT/J6
R4199
47K/J6
R4200
47K/J6
R4195
47K/J6
R4197
47K/J6
TP4191
VJR0646
R4191
0/J6
WCK1 (12)
BCK1 (12)
DASD12 (12)
P_DOWN_L (11)
MCK1 (12)
DE_EMP_ON_H (11)
IC4192
MC74HC541AFR
G2
G1
A1 A2 A3 A4 A5 A6 A7 A8
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
R4192
47K/J6
R4193
47K/J6
R4194
0/J6
R4201
47K/J6
QR4191
UN2213-TX
C4195
0.1/UFN
(3) DA_OUT_CH1
IC4194
NJM4580ED-T1
+9VA_1
-9VA_1
C4207
PAT/EVN
R4208
PAT/J6
R4218
PAT/J6
R4210
10K/J6
R4211
10K/J6
R4212
PAT/J6
TP4192
VJR0646
C4206
16V10/EVN
R4204
22K/J6
C4208
16V10/EVN
R4206
220/J6
R4213
22K/J6
(5) (7) DA_CH1
TG4191
VJR0646
(3) DA_OUT_CH2
IC4195
NJM4580ED-T1
+9VA_2
-9VA_2
C4210
PAT/EVN
R4209
PAT/J6
R4219
10K/J6
R4214
10K/J6
R4215
10K/J6
R4216
PAT/J6
TP4193
VJR0646
C4209
16V10/EVN
R4205
22K/J6
C4211
16V10/EVN
R4207
220/J6
R4217
22K/J6
(6) (7) DA_CH2
TG4192
VJR0646

Ref No4000 Series (4191-4220)

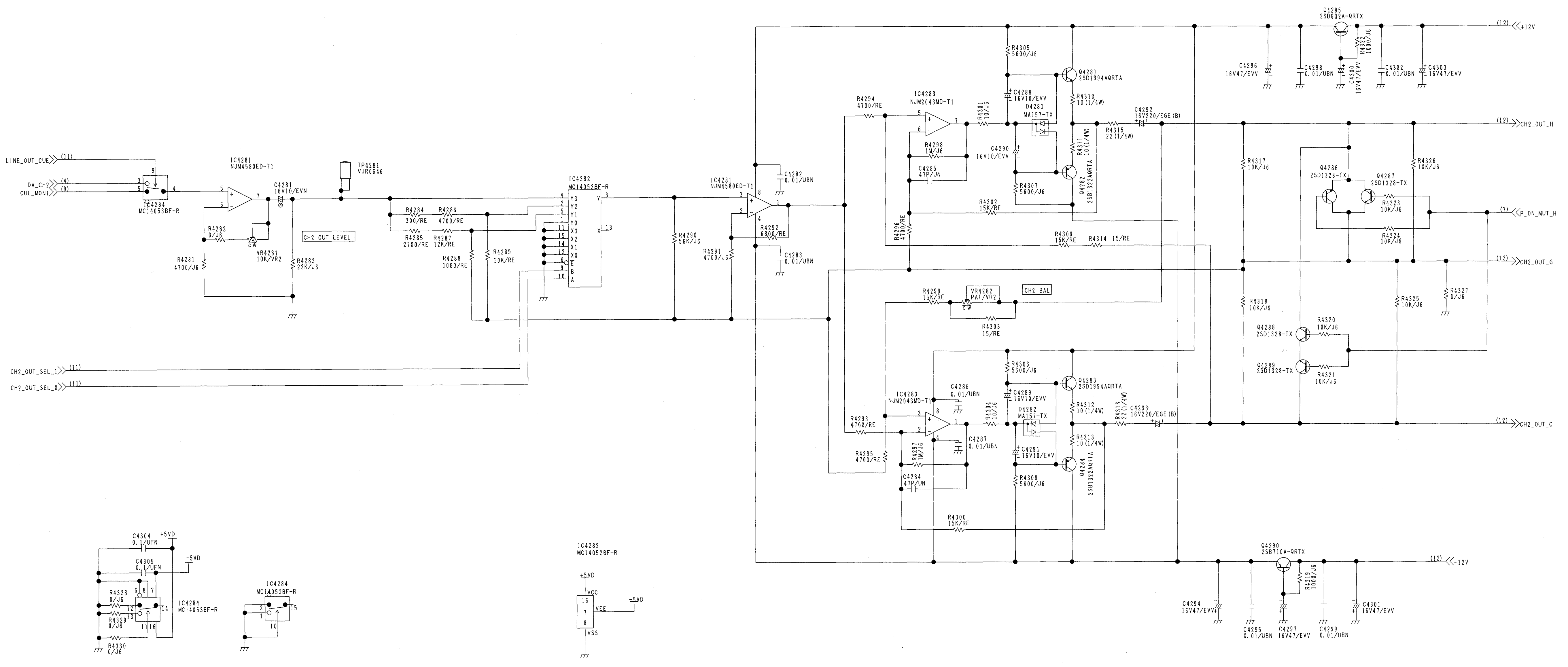
COMPONENT NAME ADDA_CUE 04/12
CIRCUIT BOARD NO.
VEP84293A:NTSC
VEP84293B:PAL
COMPONENT PATH
KR4F28(4/12)-1
SCM139


IC4221 NJM78L05UAT2
IC4222 NJM79L05UAT2
+7.5V (12)
-7.5V (12)
+5VD
-5VD
C4221 0.1/UFN
C4222 0.1/UFN
C4223 0.1/UFN
C4224 0.1/UFN
C4225 16V47/EVV
C4226 16V47/EVV
LINE_OUT_CUE (11)
DA_CH1 (4)
CUE_MONI (9)
IC4226 MC14053BF-R
IC4223 NJM4580ED-T1
C4227 16V10/EVN
TP4221 VJR0646
R4222 0/J6
VR4221 10K/VR2
R4221 4700/J6
R4223 22K/J6
CH1 OUT LEVEL
R4224 300/RE
R4226 4700/RE
R4225 2700/RE
R4227 12K/RE
R4228 1000/RE
R4229 10K/RE
IC4224 MC14052BF-R
R4230 56K/J6
R4231 4700/J6
R4232 6800/RE
C4228 0.01/UBN
C4229 0.01/UBN
CH1_OUT_SEL_1 (11)
CH1_OUT_SEL_0 (11)
IC4225 NJM2043MD-T1
R4234 4700/RE
R4238 1M/J6
C4231 47P/UN
R4236 4700/RE
R4241 10/J6
R4245 5600/J6
Q4221 2SD1994AQRTA
C4234 16V10/EVV
D4221 MA157-TX
R4250 10(1/4W)
R4251 10(1/4W)
C4236 16V10/EVV
R4247 5600/J6
Q4222 2SB1322AQRTA
R4242 15K/RE
C4238 16V220/EGE(B)
R4255 22(1/4W)
R4249 15K/RE
R4254 15/RE
R4239 15K/RE
VR4222 PAT/VR2
CH1 BAL
R4243 15/RE
R4233 4700/RE
R4235 4700/RE
R4237 1M/J6
C4230 47P/UN
C4232 0.01/UBN
C4233 0.01/UBN
R4244 10/J6
R4246 5600/J6
C4235
Q4223 2SD1994AQRTA
D4222 MA157-TX
R4252 10(1/4W)
R4253 10(1/4W)
C4237 16V10/EVV
R4248 5600/J6
Q4224 2SB1322AQRTA
R4240 15K/RE
R4256 22(1/4W)
C4239 16V220/EGE(B)
Q4225 2SD602A-QRTX
C4242 16V47/EVV
C4244 0.01/UBN
C4246 16V47/EVV
R4262 1000/J6
C4248 0.01/UBN
C4249 16V47/EVV
(12) +12V
(12) CH1_OUT_H
R4257 10K/J6
Q4226 2SD1328-TX
Q4227 2SD1328-TX
R4266 10K/J6
R4263 10K/J6
R4264 10K/J6
(7) P_ON_MUT_H
(12) CH1_OUT_G
R4267 0/J6
R4258 10K/J6
R4265 10K/J6
Q4228 2SD1328-TX
Q4229 2SD1328-TX
R4260 10K/J6
R4261 10K/J6
(12) CH1_OUT_C
Q4230 2SB710A-QRTX
R4259 1000/J6
(12) -12V
C4240 16V47/EVV
C4241 0.01/UBN
C4243 16V47/EVV
C4245 0.01/UBN
C4247 16V47/EVV
C4250 0.1/UFN
C4251 0.1/UFN
R4268 0/J6
R4269 0/J6
R4270 0/J6
IC4226 MC14053BF-R
IC4224 MC14052BF-R
VCC
VEE
VSS

CONTROL SIGNAL		OUTPUT LEVEL	
(SEL_0) A	(SEL_1) B		
0	0	Y0	MUTE
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

Ref No4000 Series (4221-4280)

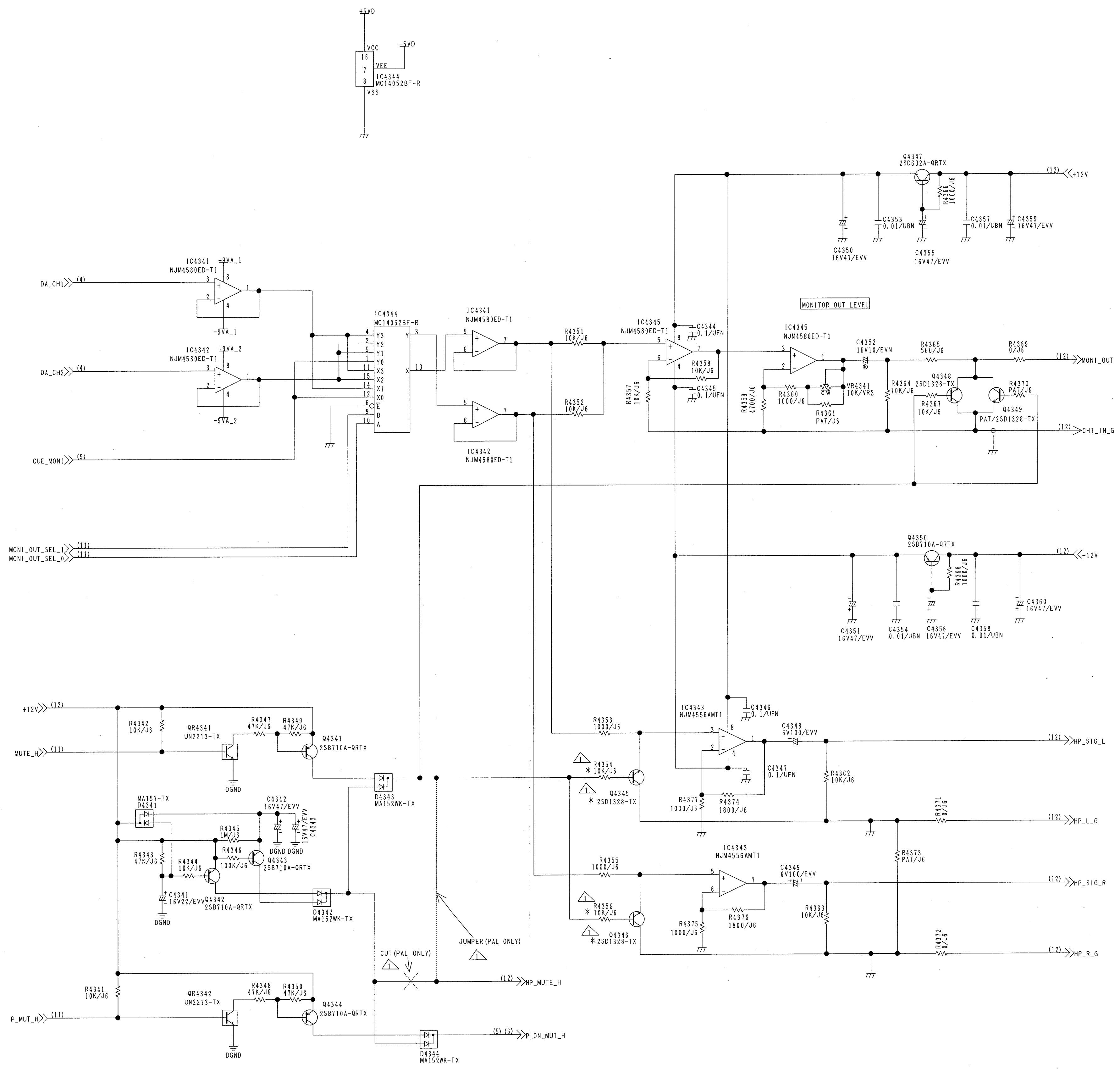
COMPONENT NAME	ADDA_CUE	05/12
CIRCUIT BOARD NO. VEP84293A:NTSC VEP84293B:PAL	COMPONENT PATH	
KR4F28(5/12)-1	SCM140	


LINE_OUT_CUE
(11)
DA_CH2
(4)
CUE_MONI
(9)
IC4284
MC14053BF-R
IC4281
NJM4580ED-T1
C4281
16V10/EVN
TP4281
VJR0646
R4282
0/J6
VR4281
10K/VR2
CW
R4281
4700/J6
R4283
22K/J6
CH2 OUT LEVEL
R4284
300/RE
R4286
4700/RE
R4285
2700/RE
R4287
12K/RE
R4288
1000/RE
R4289
10K/RE
IC4282
MC14052BF-R
Y3
Y2
Y1
Y0
X3
X2
X1
X0
E
B
A
Y
X
CH2_OUT_SEL_1
(11)
CH2_OUT_SEL_0
(11)
R4290
56K/J6
R4291
4700/J6
R4292
6800/RE
C4282
0.01/UBN
C4283
0.01/UBN
R4294
4700/RE
IC4283
NJM2043MD-T1
R4298
1M/J6
C4285
47P/UN
R4301
10/J6
R4305
5600/J6
C4288
16V10/EVV
D4281
MA157-TX
C4290
16V10/EVV
R4307
5600/J6
Q4281
2SD1994AQRTA
R4310
10 (1/4W)
R4311
10 (1/4W)
Q4282
2SB1322AQRTA
R4315
22 (1/4W)
C4292
16V220/EGE (B)
R4302
15K/RE
R4296
4700/RE
R4309
15K/RE
R4314 15/RE
R4299
15K/RE
VR4282
PAT/VR2
CH2 BAL
R4303
15/RE
R4306
5600/J6
C4286
0.01/UBN
C4289
16V10/EVV
Q4283
2SD1994AQRTA
R4304
10/J6
D4282
MA157-TX
R4312
10 (1/4W)
R4316
22 (1/4W)
C4293
16V220/EGE (B)
R4293
4700/RE
C4287
0.01/UBN
R4313
10 (1/4W)
R4295
4700/RE
R4297
1M/J6
C4291
16V10/EVV
Q4284
2SB1322AQRTA
C4284
47P/UN
R4308
5600/J6
R4300
15K/RE
Q4285
2SD602A-QRTX
R4322
1000/J6
C4296
16V47/EVV
C4298
0.01/UBN
C4300
16V47/EVV
C4302
0.01/UBN
C4303
16V47/EVV
(12)
+12V
(12)
CH2_OUT_H
R4317
10K/J6
Q4286
2SD1328-TX
Q4287
2SD1328-TX
R4326
10K/J6
R4323
10K/J6
R4324
10K/J6
(7)
P_ON_MUT_H
(12)
CH2_OUT_G
R4318
10K/J6
R4325
10K/J6
R4327
0/J6
Q4288
2SD1328-TX
R4320
10K/J6
Q4289
2SD1328-TX
R4321
10K/J6
(12)
CH2_OUT_C
Q4290
2SB710A-QRTX
R4319
1000/J6
(12)
-12V
C4294
16V47/EVV
C4295
0.01/UBN
C4297
16V47/EVV
C4299
0.01/UBN
C4301
16V47/EVV
C4304
0.1/UFN
+5VD
C4305
0.1/UFN
-5VD
R4328
0/J6
R4329
0/J6
R4330
0/J6
IC4284
MC14053BF-R
IC4284
MC14053BF-R
IC4282
MC14052BF-R
+5VD
VCC
VEE
-5VD
VSS

CONTROL SIGNAL		OUTPUT LEVEL	
(SEL_0) A	(SEL_1) B		
0	0	Y0	MUTE
1	0	Y1	−20dBu
0	1	Y2	0dBu
1	1	Y3	+4dBu

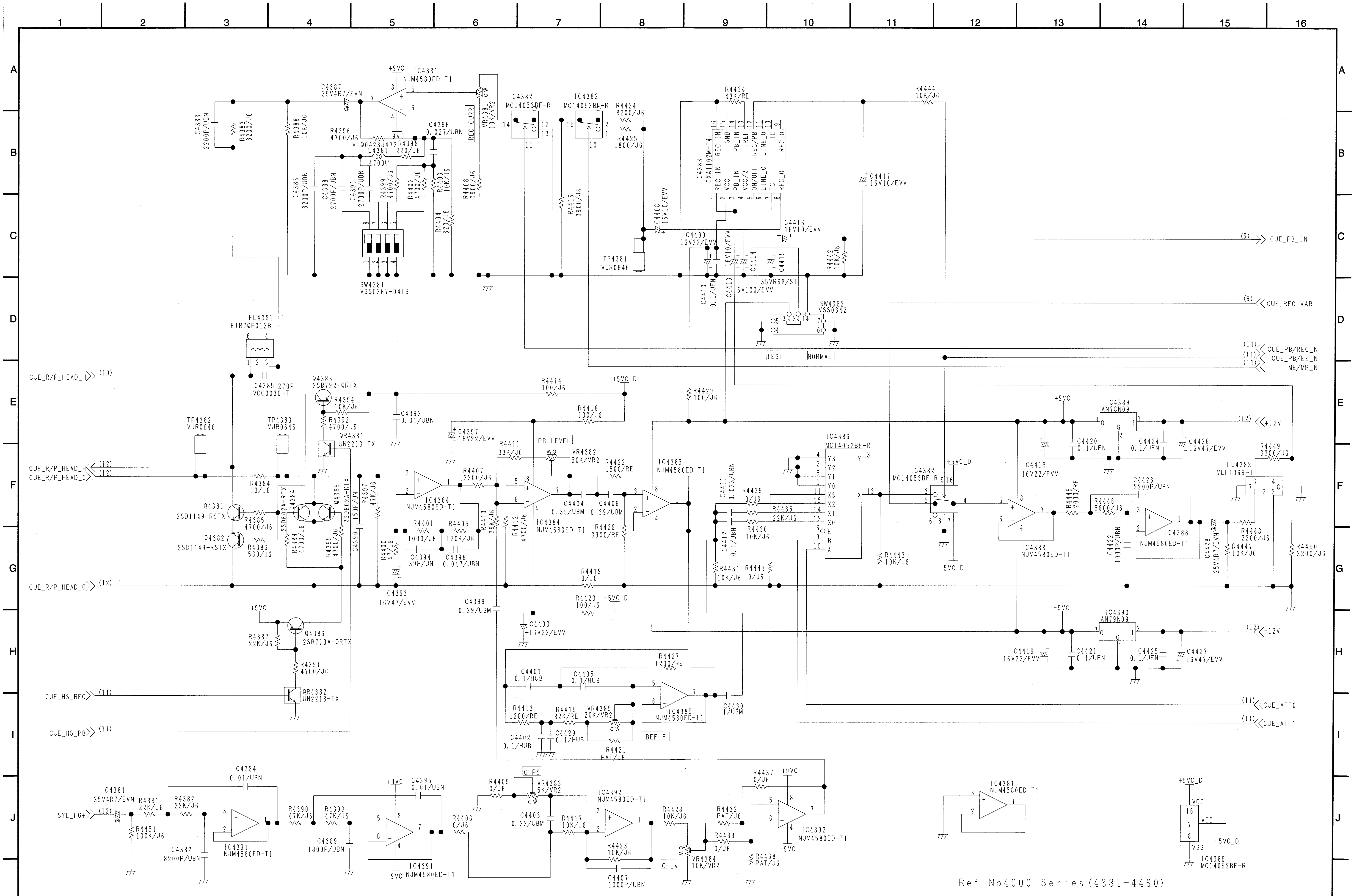
Ref No4000 Series (4281-4340)

COMPONENT NAME	ADDA_CUE	06/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(6/12)-1	SCM141	


IC4344 MC14052BF-R
+5VD
-5VD
VCC
VEE
VSS
IC4341 NJM4580ED-T1
IC4342 NJM4580ED-T1
DA_CH1
DA_CH2
CUE_MONI
MONI_OUT_SEL_1
MONI_OUT_SEL_0
+5VA_1
-5VA_1
+5VA_2
-5VA_2
R4351 10K/J6
R4352 10K/J6
IC4345 NJM4580ED-T1
C4344 0.1/UFN
C4345 0.1/UFN
R4358 10K/J6
R4357 10K/J6
R4359 4700/J6
MONITOR OUT LEVEL
C4352 16V10/EVN
R4365 560/J6
R4369 0/J6
MONI_OUT
R4360 1000/J6
VR4341 10K/VR2
R4361 PAT/J6
R4364 10K/J6
Q4348 2SD1328-TX
R4367 10K/J6
Q4349 PAT/2SD1328-TX
R4370 PAT/J6
CH1_IN_G
Q4347 2SD602A-QRTX
R4366 1000/J6
+12V
C4350 16V47/EVV
C4353 0.01/UBN
C4355 16V47/EVV
C4357 0.01/UBN
C4359 16V47/EVV
Q4350 2SB710A-QRTX
R4368 1000/J6
-12V
C4351 16V47/EVV
C4354 0.01/UBN
C4356 16V47/EVV
C4358 0.01/UBN
C4360 16V47/EVV
+12V
MUTE_H
R4342 10K/J6
QR4341 UN2213-TX
R4347 47K/J6
R4349 47K/J6
Q4341 2SB710A-QRTX
DGND
D4343 MA152WK-TX
MA157-TX D4341
C4342 16V47/EVV
C4343 16V47/EVV
R4345 1M/J6
R4346 100K/J6
Q4343 2SB710A-QRTX
R4343 47K/J6
R4344 10K/J6
C4341 16V22/EVV
Q4342 2SB710A-QRTX
D4342 MA152WK-TX
CUT (PAL ONLY)
JUMPER (PAL ONLY)
HP_MUTE_H
R4341 10K/J6
P_MUT_H
QR4342 UN2213-TX
R4348 47K/J6
R4350 47K/J6
Q4344 2SB710A-QRTX
D4344 MA152WK-TX
P_ON_MUT_H
IC4343 NJM4556AMT1
C4346 0.1/UFN
R4353 1000/J6
C4348 6V100/EVV
HP_SIG_L
R4354 10K/J6
Q4345 2SD1328-TX
C4347 0.1/UFN
R4362 10K/J6
R4377 1000/J6
R4374 1800/J6
R4371 0/J6
HP_L_G
R4373 PAT/J6
R4355 1000/J6
C4349 6V100/EVV
HP_SIG_R
R4356 10K/J6
Q4346 2SD1328-TX
R4376 1800/J6
R4375 1000/J6
R4363 10K/J6
R4372 0/J6
HP_R_G

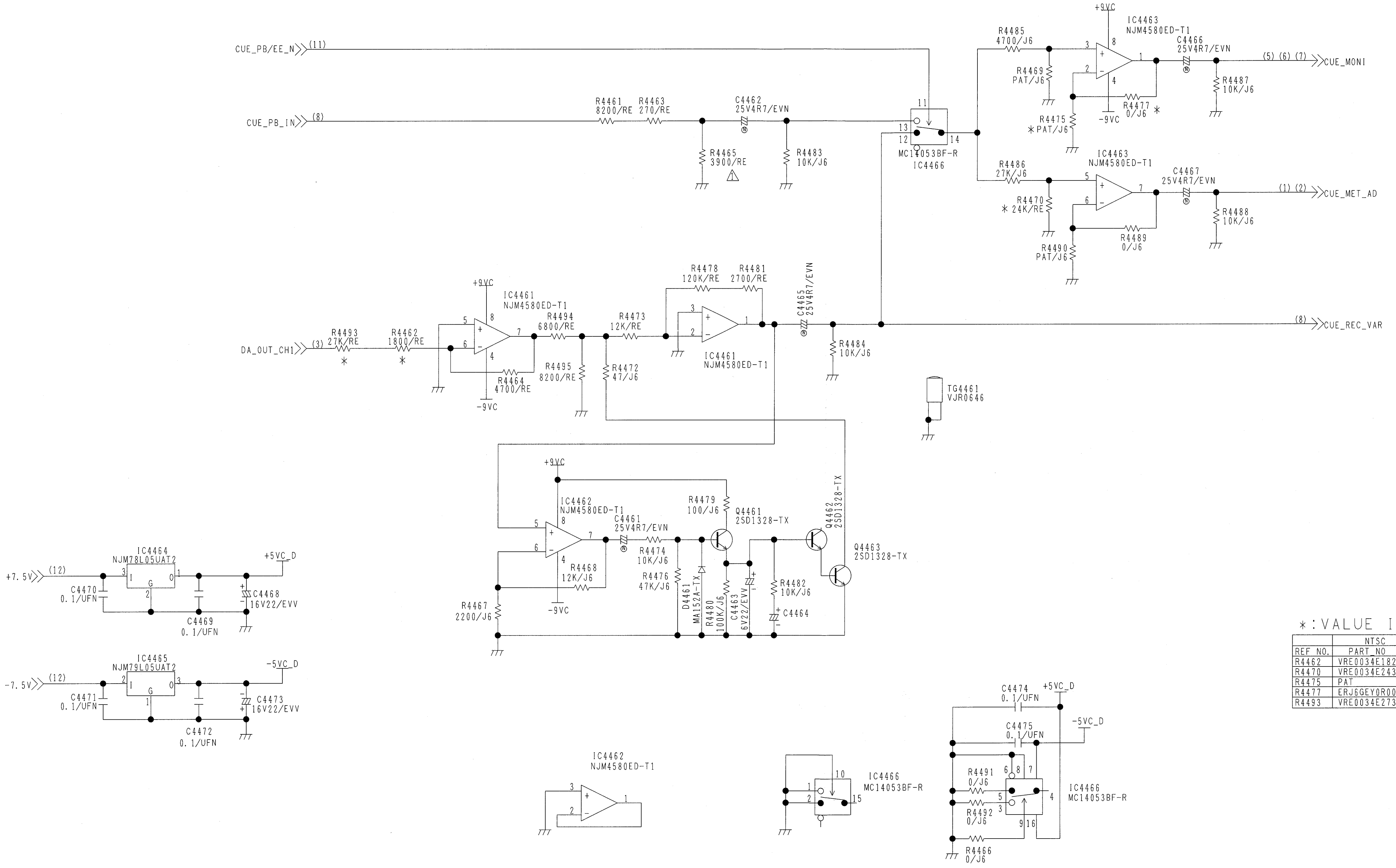
Ref No4000 Series (4341-4380)

COMPONENT NAME	ADDA_CUE	07/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(7/12)-1	SCM142	


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
+9VC
IC4381
NJM4580ED-T1
C4387
25V4R7/EVN
C4383
2200P/UBN
R4383
8200/J6
R4388
10K/J6
R4396
4700/J6
VLQ0423J472
-9VC
R4398
220/J6
L4381
4700U
C4396
0.027/UBN
REC_CURR
VR4381
10K/VR2
CW
IC4382
MC14053BF-R
R4424
8200/J6
R4425
1800/J6
C4386
8200P/UBN
C4388
2700P/UBN
C4391
2700P/UBN
R4399
4700/J6
R4402
4700/J6
R4403
10K/J6
R4404
820/J6
R4408
3900/J6
R4416
3900/J6
SW4381
VSS0367-04TB
C4408
16V10/EVV
TP4381
VJR0646
R4434
43K/RE
IC4383
CXA1102M-T4
REC_IN
GND
PB_IN
IREF
REC/PB
LINE_O
TC
REC_O
VCC
VCC/2
ON/OFF
R4444
10K/J6
C4417
16V10/EVV
C4416
16V10/EVV
C4409
16V22/EVV
C4410
0.1/UFN
C4413
6V100/EVV
C4414
16V10/EVV
C4415
35VR68/ST
R4442
10K/J6
CUE_PB_IN
CUE_REC_VAR
SW4382
VSS0342
TEST
NORMAL
CUE_PB/REC_N
CUE_PB/EE_N
ME/MP_N
FL4381
EIR7QF012B
CUE_R/P_HEAD_H
C4385 270P
VCC0030-T
Q4383
2SB792-QRTX
R4394
10K/J6
R4392
4700/J6
QR4381
UN2213-TX
R4414
100/J6
+5VC_D
R4418
100/J6
C4392
0.01/UBN
C4397
16V22/EVV
R4411
33K/J6
PB LEVEL
VR4382
50K/VR2
R4422
1500/RE
IC4385
NJM4580ED-T1
R4429
100/J6
IC4386
MC14052BF-R
IC4389
AN78N09
+12V
C4420
0.1/UFN
C4424
0.1/UFN
C4426
16V47/EVV
R4449
3300/J6
FL4382
VLF1069-T
TP4382
VJR0646
TP4383
VJR0646
CUE_R/P_HEAD_H
CUE_R/P_HEAD_C
R4384
10/J6
Q4381
2SD1149-RSTX
Q4382
2SD1149-RSTX
R4385
4700/J6
R4386
560/J6
Q4384
2SD602A-RTX
Q4385
2SD602A-RTX
R4389
4700/J6
R4395
4700/J6
C4390
150P/UN
R4397
47K/J6
R4400
47/J6
C4393
16V47/EVV
IC4384
NJM4580ED-T1
R4407
2200/J6
R4401
1000/J6
R4405
120K/J6
C4394
39P/UN
C4398
0.047/UBN
R4410
39K/J6
R4412
4700/J6
C4404
0.39/UBM
C4406
0.39/UBM
R4426
3900/RE
C4411
0.033/UBN
R4439
0/J6
R4435
22K/J6
R4436
10K/J6
C4412
0.1/UBN
R4431
10K/J6
R4441
0/J6
R4443
10K/J6
-5VC_D
IC4382
MC14053BF-R
C4418
16V22/EVV
IC4388
NJM4580ED-T1
R4445
2000/RE
R4446
5600/J6
C4423
2200P/UBN
C4422
1000P/UBN
C4428
25V4R7/EVN
R4447
10K/J6
R4448
2200/J6
R4450
2200/J6
CUE_R/P_HEAD_G
R4419
0/J6
R4420
100/J6
-5VC_D
C4399
0.39/UBM
C4400
16V22/EVV
+9VC
R4387
22K/J6
Q4386
2SB710A-QRTX
R4391
4700/J6
CUE_HS_REC
QR4382
UN2213-TX
CUE_HS_PB
-9VC
IC4390
AN79N09
-12V
C4419
16V22/EVV
C4421
0.1/UFN
C4425
0.1/UFN
C4427
16V47/EVV
C4401
0.1/HUB
C4405
0.1/HUB
R4427
1200/RE
R4413
1200/RE
R4415
82K/RE
VR4385
20K/VR2
C4429
0.1/HUB
C4402
0.1/HUB
R4421
PAT/J6
BEF-F
C4430
1/UBM
CUE_ATT0
CUE_ATT1
C4384
0.01/UBN
C4381
25V4R7/EVN
R4381
22K/J6
R4382
22K/J6
SYL_FG+
R4451
100K/J6
C4382
8200P/UBN
IC4391
NJM4580ED-T1
R4390
47K/J6
R4393
47K/J6
C4389
1800P/UBN
C4395
0.01/UBN
-9VC
R4406
0/J6
R4409
0/J6
C_PS
VR4383
5K/VR2
C4403
0.22/UBM
R4417
10K/J6
IC4392
NJM4580ED-T1
R4423
10K/J6
C4407
1000P/UBN
R4428
10K/J6
C-LV
VR4384
10K/VR2
R4437
0/J6
R4432
PAT/J6
R4433
0/J6
R4438
PAT/J6
IC4381
NJM4580ED-T1
+5VC_D
VCC
VEE
VSS
-5VC_D
IC4386
MC14052BF-R

Ref No4000 Series(4381-4460)

COMPONENT NAME	ADDA_CUE		08/12
CIRCUIT BOARD NO.		COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL			
KR4F28(8/12)-1		SCM143	

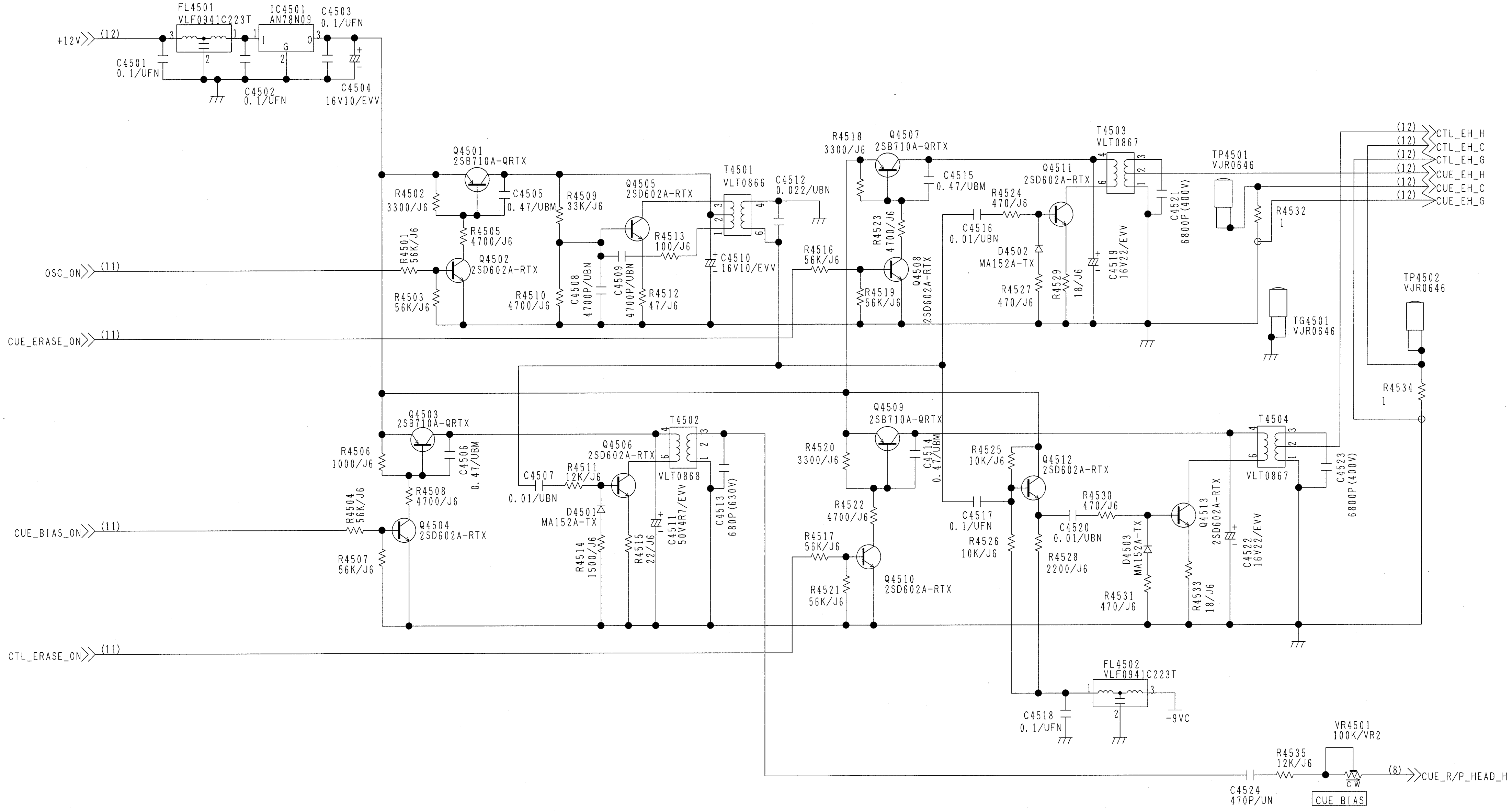

CUE_PB/EE_N
(11)
CUE_PB_IN
(8)
R4461
8200/RE
R4463
270/RE
C4462
25V4R7/EVN
R4465
3900/RE
R4483
10K/J6
11
13
12
14
MC14053BF-R
IC4466
+9VC
IC4463
NJM4580ED-T1
R4485
4700/J6
R4469
PAT/J6
R4475
*PAT/J6
R4477
0/J6
*
-9VC
C4466
25V4R7/EVN
R4487
10K/J6
(5) (6) (7)
CUE_MONI
R4486
27K/J6
R4470
* 24K/RE
R4490
PAT/J6
R4489
0/J6
C4467
25V4R7/EVN
R4488
10K/J6
(1) (2)
CUE_MET_AD
DA_OUT_CH1
(3)
R4493
27K/RE
*
R4462
1800/RE
*
IC4461
NJM4580ED-T1
R4494
6800/RE
R4495
8200/RE
R4464
4700/RE
R4473
12K/RE
R4472
47/J6
R4478
120K/RE
R4481
2700/RE
C4465
25V4R7/EVN
R4484
10K/J6
(8)
CUE_REC_VAR
TG4461
VJR0646
IC4462
NJM4580ED-T1
C4461
25V4R7/EVN
R4474
10K/J6
R4476
47K/J6
R4468
12K/J6
R4467
2200/J6
R4479
100/J6
Q4461
2SD1328-TX
Q4462
2SD1328-TX
Q4463
2SD1328-TX
D4461
MA152A-TX
R4480
100K/J6
C4463
6V22/EVV
R4482
10K/J6
C4464
IC4464
NJM78L05UAT2
+7.5V
(12)
C4470
0.1/UFN
C4469
0.1/UFN
C4468
16V22/EVV
+5VC_D
IC4465
NJM79L05UAT2
-7.5V
(12)
C4471
0.1/UFN
C4472
0.1/UFN
C4473
16V22/EVV
-5VC_D
IC4462
NJM4580ED-T1
IC4466
MC14053BF-R
C4474
0.1/UFN
+5VC_D
C4475
0.1/UFN
-5VC_D
R4491
0/J6
R4492
0/J6
R4466
0/J6
IC4466
MC14053BF-R

*:VALUE IS DIFFARENT for PAL

	NTSC		PAL	
REF NO.	PART_NO	VAL	PART_NO	VAL
R4462	VRE0034E182	1800/RE	VRE0034E183	18K/RE
R4470	VRE0034E243	24K/RE	ERJ6GEYJ393V	39K/RE
R4475	PAT	PAT/J6	ERJ6GEYJ392V	3900/J6
R4477	ERJ6GEY0R00V	0/J6	ERJ6GEYJ122V	1200/J6
R4493	VRE0034E273	27K/RE	VRE0034E183	18K/RE

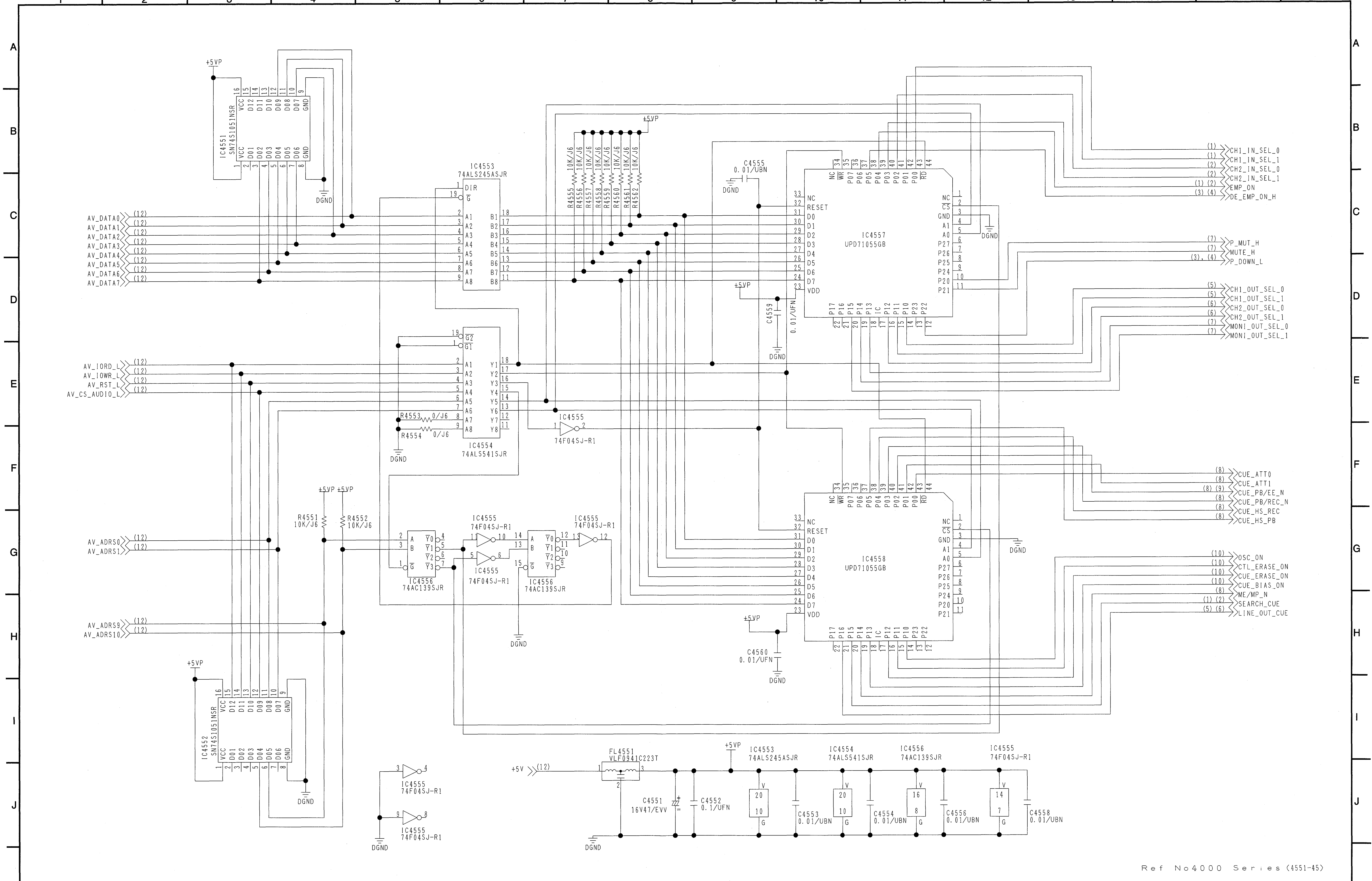
Ref No4000 Series(4461-4500)

COMPONENT NAME	ADDA_CUE	09/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(9/12)-1	SCM144	


+12V
(12)
FL4501
VLF0941C223T
IC4501
AN78N09
C4503
0.1/UFN
C4501
0.1/UFN
C4502
0.1/UFN
C4504
16V10/EVV
Q4501
2SB710A-QRTX
R4502
3300/J6
C4505
0.47/UBM
R4509
33K/J6
Q4505
2SD602A-RTX
T4501
VLT0866
C4512
0.022/UBN
R4505
4700/J6
R4501
56K/J6
Q4502
2SD602A-RTX
R4513
100/J6
C4510
16V10/EVV
R4516
56K/J6
OSC_ON
(11)
R4503
56K/J6
R4510
4700/J6
C4508
4700P/UBN
C4509
4700P/UBN
R4512
47/J6
CUE_ERASE_ON
(11)
R4518
3300/J6
Q4507
2SB710A-QRTX
C4515
0.47/UBM
R4523
4700/J6
Q4508
2SD602A-RTX
R4519
56K/J6
C4516
0.01/UBN
R4524
470/J6
D4502
MA152A-TX
R4527
470/J6
R4529
18/J6
Q4511
2SD602A-RTX
C4519
16V22/EVV
T4503
VLT0867
C4521
6800P(400V)
TP4501
VJR0646
R4532
1
TG4501
VJR0646
(12) CTL_EH_H
(12) CTL_EH_C
(12) CTL_EH_G
(12) CUE_EH_H
(12) CUE_EH_C
(12) CUE_EH_G
TP4502
VJR0646
R4534
1
Q4503
2SB710A-QRTX
R4506
1000/J6
C4506
0.47/UBM
R4508
4700/J6
R4504
56K/J6
Q4504
2SD602A-RTX
CUE_BIAS_ON
(11)
R4507
56K/J6
C4507
0.01/UBN
R4511
12K/J6
Q4506
2SD602A-RTX
D4501
MA152A-TX
R4514
1500/J6
R4515
22/J6
C4511
50V4R7/EVV
T4502
VLT0868
C4513
680P(630V)
Q4509
2SB710A-QRTX
R4520
3300/J6
C4514
0.47/UBM
R4522
4700/J6
R4517
56K/J6
Q4510
2SD602A-RTX
R4521
56K/J6
R4525
10K/J6
Q4512
2SD602A-RTX
C4517
0.1/UFN
R4526
10K/J6
R4530
470/J6
C4520
0.01/UBN
R4528
2200/J6
D4503
MA152A-TX
R4531
470/J6
Q4513
2SD602A-RTX
R4533
18/J6
C4522
16V22/EVV
T4504
VLT0867
C4523
6800P(400V)
CTL_ERASE_ON
(11)
FL4502
VLF0941C223T
C4518
0.1/UFN
-9VC
R4535
12K/J6
VR4501
100K/VR2
CW
(8)
CUE_R/P_HEAD_H
C4524
470P/UN
CUE BIAS

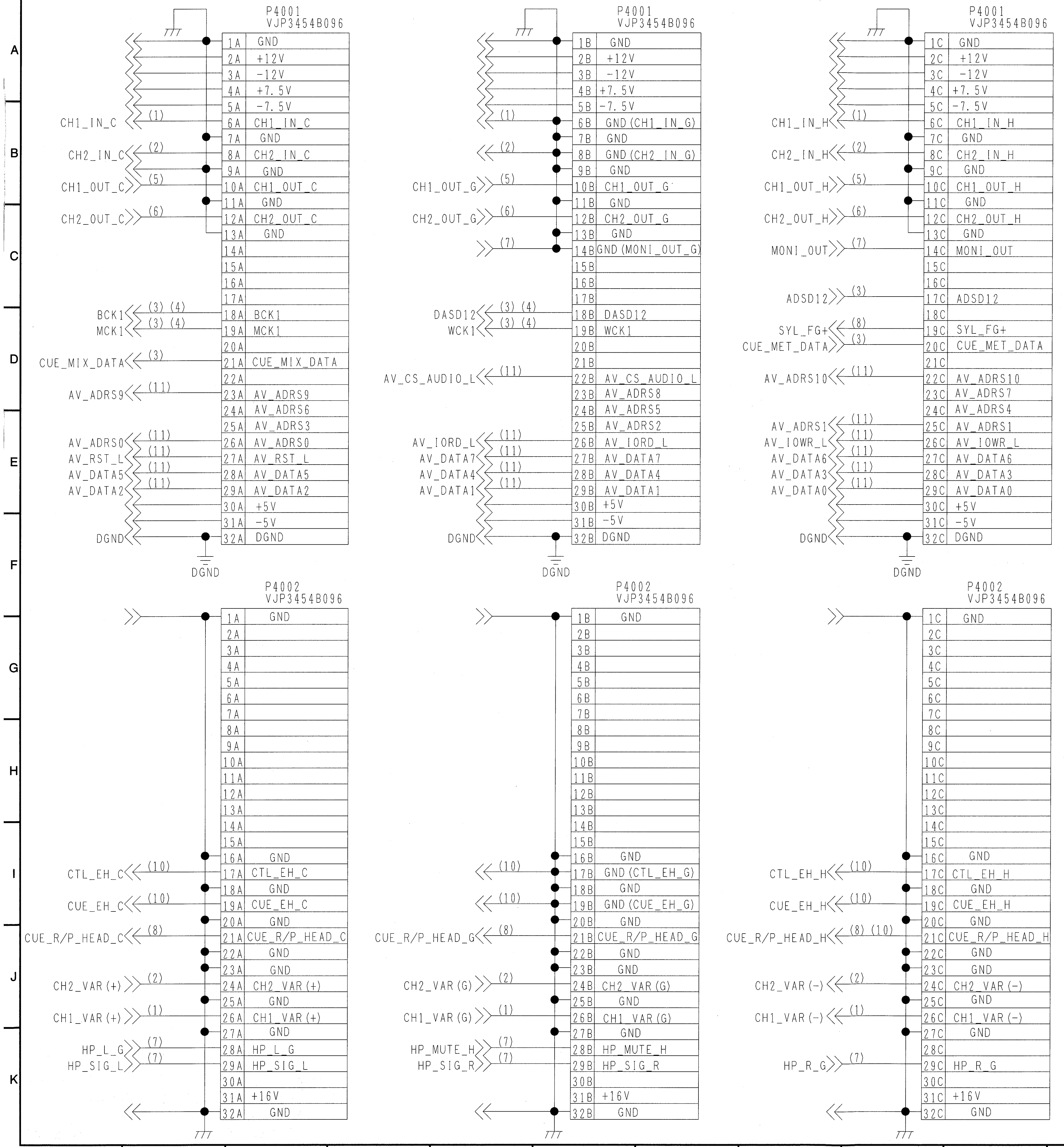
Ref No4000 Series(4501-4550)

COMPONENT NAME	ADDA_CUE	10/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(10/12)-1		SCM145


IC4551
SN74S1051NSR
+5VP
DGND
IC4553
74ALS245ASJR
IC4554
74ALS541SJR
R4553 0/J6
R4554 0/J6
IC4555
74F04SJ-R1
IC4556
74AC139SJR
R4551 10K/J6
R4552 10K/J6
R4555 10K/J6
R4556 10K/J6
R4557 10K/J6
R4558 10K/J6
R4559 10K/J6
R4560 10K/J6
R4561 10K/J6
R4562 10K/J6
C4555 0.01/UBN
C4559 0.01/UFN
C4560 0.01/UFN
IC4557
UPD71055GB
IC4558
UPD71055GB
IC4552
SN74S1051NSR
AV_DATA0 (12)
AV_DATA1 (12)
AV_DATA2 (12)
AV_DATA3 (12)
AV_DATA4 (12)
AV_DATA5 (12)
AV_DATA6 (12)
AV_DATA7 (12)
AV_IORD_L (12)
AV_IOWR_L (12)
AV_RST_L (12)
AV_CS_AUDIO_L (12)
AV_ADRS0 (12)
AV_ADRS1 (12)
AV_ADRS9 (12)
AV_ADRS10 (12)
(1) CH1_IN_SEL_0
(1) CH1_IN_SEL_1
(2) CH2_IN_SEL_0
(2) CH2_IN_SEL_1
(1) (2) EMP_ON
(3) (4) DE_EMP_ON_H
(7) P_MUT_H
(7) MUTE_H
(3), (4) P_DOWN_L
(5) CH1_OUT_SEL_0
(5) CH1_OUT_SEL_1
(6) CH2_OUT_SEL_0
(6) CH2_OUT_SEL_1
(7) MONI_OUT_SEL_0
(7) MONI_OUT_SEL_1
(8) CUE_ATT0
(8) CUE_ATT1
(8) (9) CUE_PB/EE_N
(8) CUE_PB/REC_N
(8) CUE_HS_REC
(8) CUE_HS_PB
(10) OSC_ON
(10) CTL_ERASE_ON
(10) CUE_ERASE_ON
(10) CUE_BIAS_ON
(8) ME/MP_N
(1) (2) SEARCH_CUE
(5) (6) LINE_OUT_CUE
+5V (12)
FL4551
VLF0941C223T
C4551 16V47/EVV
C4552 0.1/UFN
C4553 0.01/UBN
C4554 0.01/UBN
C4556 0.01/UBN
C4558 0.01/UBN
IC4553 74ALS245ASJR
IC4554 74ALS541SJR
IC4556 74AC139SJR
IC4555 74F04SJ-R1

Ref No4000 Series (4551-45)

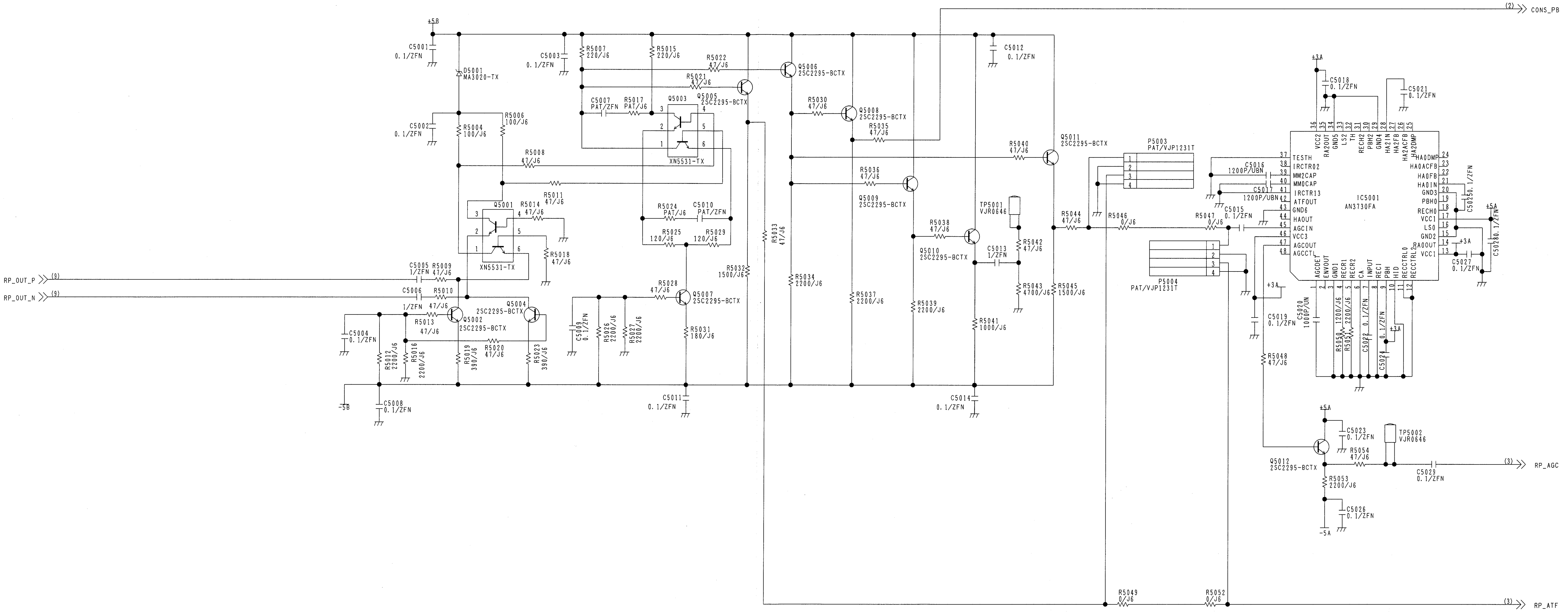
COMPONENT NAME	ADDA_CUE	11/12
CIRCUIT BOARD NO. VEP84293A:NTSC VEP84293B:PAL	COMPONENT PATH	
KR4F28(11/12)-1		SCM146


P4001
VJP3454B096
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
CH1_IN_C (1) 6A CH1_IN_C
7A GND
CH2_IN_C (2) 8A CH2_IN_C
9A GND
CH1_OUT_C (5) 10A CH1_OUT_C
11A GND
CH2_OUT_C (6) 12A CH2_OUT_C
13A GND
14A
15A
16A
17A
BCK1 (3) (4) 18A BCK1
MCK1 (3) (4) 19A MCK1
20A
CUE_MIX_DATA (3) 21A CUE_MIX_DATA
22A
AV_ADRS9 (11) 23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
AV_ADRS0 (11) 26A AV_ADRS0
AV_RST_L (11) 27A AV_RST_L
AV_DATA5 (11) 28A AV_DATA5
AV_DATA2 (11) 29A AV_DATA2
30A +5V
31A -5V
DGND 32A DGND
DGND
P4001
VJP3454B096
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
(1) 6B GND (CH1_IN_G)
7B GND
(2) 8B GND (CH2_IN_G)
9B GND
CH1_OUT_G (5) 10B CH1_OUT_G
11B GND
CH2_OUT_G (6) 12B CH2_OUT_G
13B GND
(7) 14B GND (MONI_OUT_G)
15B
16B
17B
DASD12 (3) (4) 18B DASD12
WCK1 (3) (4) 19B WCK1
20B
21B
AV_CS_AUDIO_L (11) 22B AV_CS_AUDIO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
AV_IORD_L (11) 26B AV_IORD_L
AV_DATA7 (11) 27B AV_DATA7
AV_DATA4 (11) 28B AV_DATA4
AV_DATA1 (11) 29B AV_DATA1
30B +5V
31B -5V
DGND 32B DGND
DGND
P4001
VJP3454B096
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
CH1_IN_H (1) 6C CH1_IN_H
7C GND
CH2_IN_H (2) 8C CH2_IN_H
9C GND
CH1_OUT_H (5) 10C CH1_OUT_H
11C GND
CH2_OUT_H (6) 12C CH2_OUT_H
13C GND
MONI_OUT (7) 14C MONI_OUT
15C
16C
ADSD12 (3) 17C ADSD12
18C
SYL_FG+ (8) 19C SYL_FG+
CUE_MET_DATA (3) 20C CUE_MET_DATA
21C
AV_ADRS10 (11) 22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
AV_ADRS1 (11) 25C AV_ADRS1
AV_IOWR_L (11) 26C AV_IOWR_L
AV_DATA6 (11) 27C AV_DATA6
AV_DATA3 (11) 28C AV_DATA3
AV_DATA0 (11) 29C AV_DATA0
30C +5V
31C -5V
DGND 32C DGND
DGND
P4002
VJP3454B096
1A GND
2A
3A
4A
5A
6A
7A
8A
9A
10A
11A
12A
13A
14A
15A
16A GND
CTL_EH_C (10) 17A CTL_EH_C
18A GND
CUE_EH_C (10) 19A CUE_EH_C
20A GND
CUE_R/P_HEAD_C (8) 21A CUE_R/P_HEAD_C
22A GND
23A GND
CH2_VAR(+) (2) 24A CH2_VAR(+)
25A GND
CH1_VAR(+) (1) 26A CH1_VAR(+)
27A GND
HP_L_G (7) 28A HP_L_G
HP_SIG_L (7) 29A HP_SIG_L
30A
31A +16V
32A GND
P4002
VJP3454B096
1B GND
2B
3B
4B
5B
6B
7B
8B
9B
10B
11B
12B
13B
14B
15B
16B GND
(10) 17B GND (CTL_EH_G)
18B GND
(10) 19B GND (CUE_EH_G)
20B GND
CUE_R/P_HEAD_G (8) 21B CUE_R/P_HEAD_G
22B GND
23B GND
CH2_VAR(G) (2) 24B CH2_VAR(G)
25B GND
CH1_VAR(G) (1) 26B CH1_VAR(G)
27B GND
HP_MUTE_H (7) 28B HP_MUTE_H
HP_SIG_R (7) 29B HP_SIG_R
30B
31B +16V
32B GND
P4002
VJP3454B096
1C GND
2C
3C
4C
5C
6C
7C
8C
9C
10C
11C
12C
13C
14C
15C
16C GND
CTL_EH_H (10) 17C CTL_EH_H
18C GND
CUE_EH_H (10) 19C CUE_EH_H
20C GND
CUE_R/P_HEAD_H (8) (10) 21C CUE_R/P_HEAD_H
22C GND
23C GND
CH2_VAR(-) (2) 24C CH2_VAR(-)
25C GND
CH1_VAR(-) (1) 26C CH1_VAR(-)
27C GND
28C
HP_R_G (7) 29C HP_R_G
30C
31C +16V
32C GND

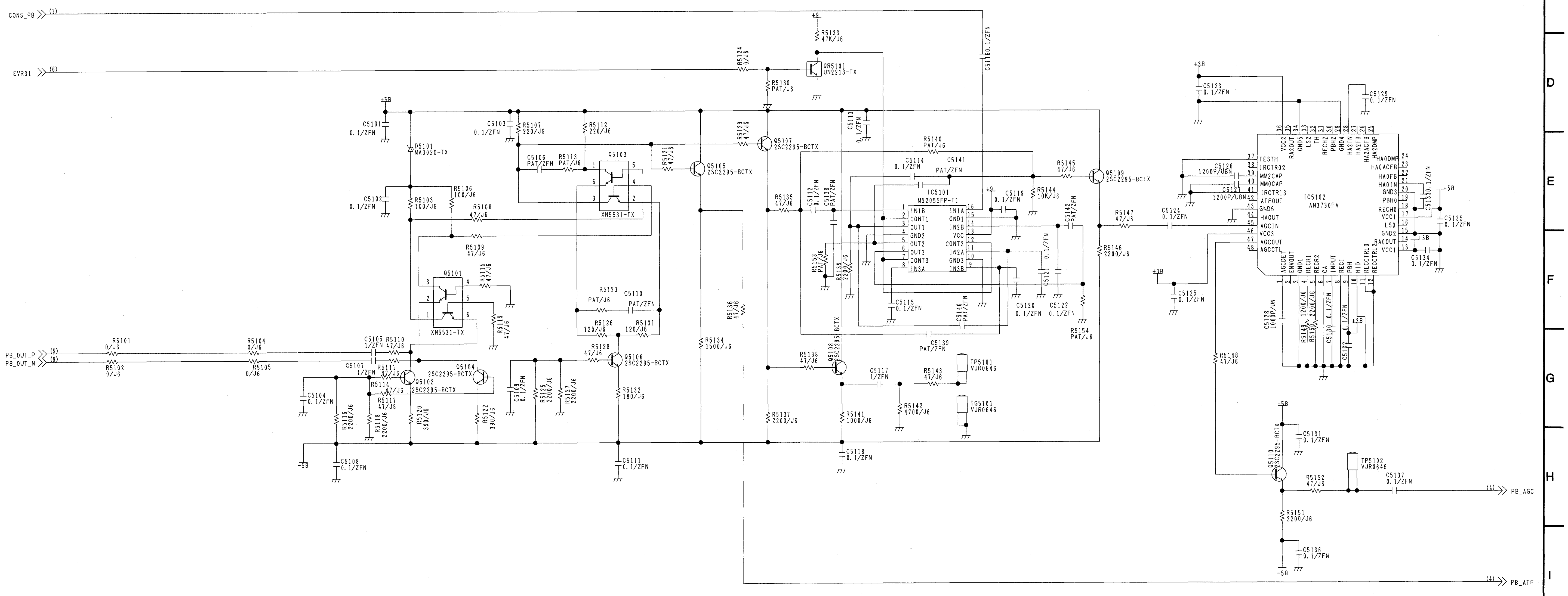
NO.	DATE	TDE NO.	NAME	NO.	DATE	TDE NO.	NAME
1				11			
2				12			
3				13			
4				14			
5				15			
6				16			
7				17			
8				18			
9				19			
10				20			

Ref No4000 Series

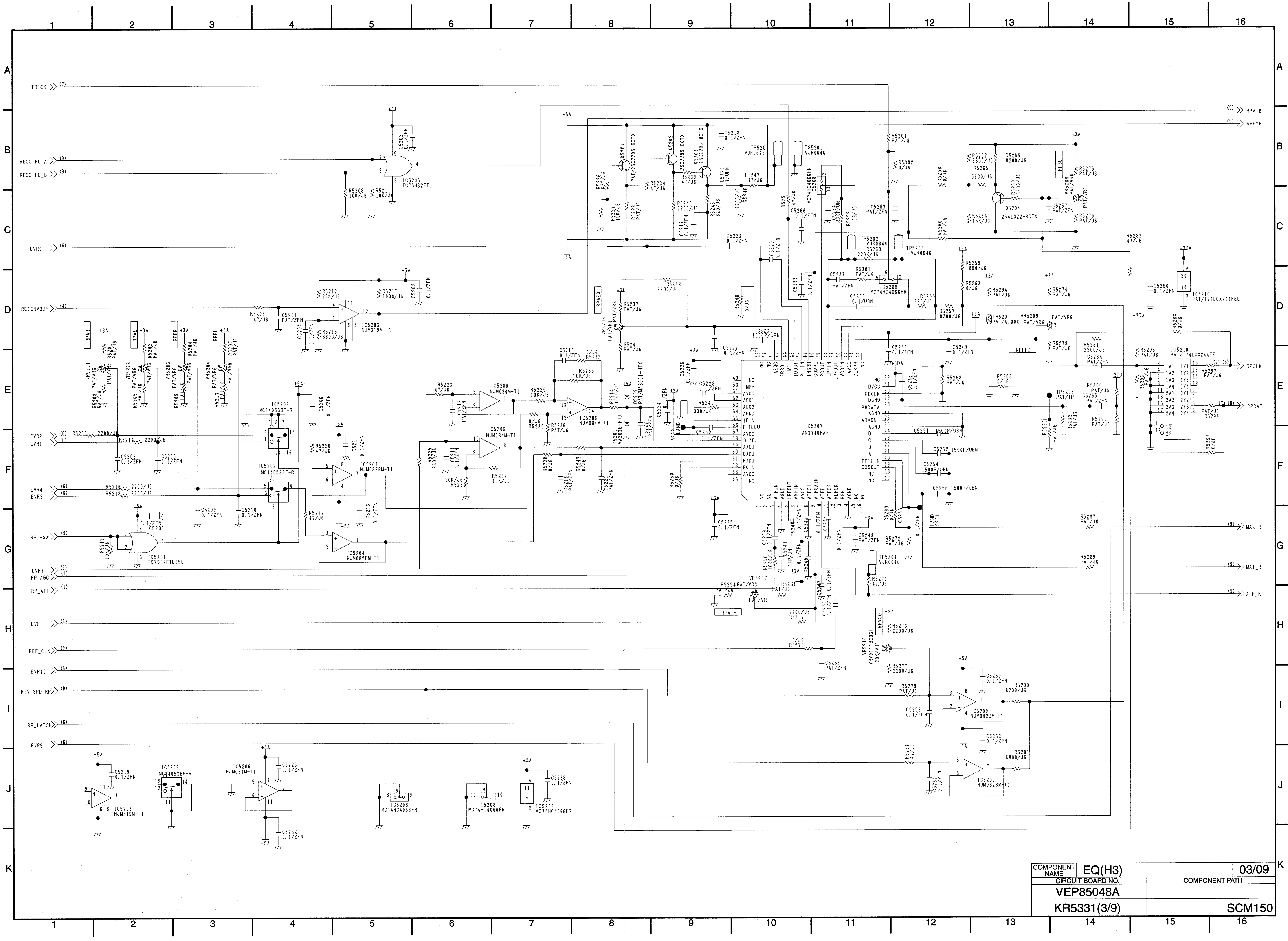
COMPONENT NAME	ADDA_CUE	12/12
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84293A:NTSC VEP84293B:PAL		
KR4F28(12/12)-1	SCM147	


RP_OUT_P
(9)
RP_OUT_N
(9)
+5B
-5B
C5001
0.1/ZFN
D5001
MA3020-TX
C5002
0.1/ZFN
R5004
100/J6
R5006
100/J6
R5008
47/J6
R5011
47/J6
Q5001
R5014
47/J6
XN5531-TX
R5018
47/J6
C5005
1/ZFN
R5009
47/J6
C5006
1/ZFN
R5010
47/J6
R5013
47/J6
Q5002
2SC2295-BCTX
Q5004
2SC2295-BCTX
C5004
0.1/ZFN
R5012
2200/J6
R5016
2200/J6
R5019
390/J6
R5020
47/J6
R5023
390/J6
C5008
0.1/ZFN
C5003
0.1/ZFN
R5007
220/J6
R5015
220/J6
R5022
47/J6
R5021
47/J6
C5007
PAT/ZFN
R5017
PAT/J6
Q5003
Q5005
2SC2295-BCTX
XN5531-TX
R5024
PAT/J6
C5010
PAT/ZFN
R5025
120/J6
R5029
120/J6
R5028
47/J6
Q5007
2SC2295-BCTX
C5009
0.1/ZFN
R5026
2200/J6
R5027
2200/J6
R5031
180/J6
C5011
0.1/ZFN
R5032
1500/J6
R5033
47/J6
Q5006
2SC2295-BCTX
R5030
47/J6
Q5008
2SC2295-BCTX
R5035
47/J6
R5034
2200/J6
R5036
47/J6
Q5009
2SC2295-BCTX
R5037
2200/J6
R5039
2200/J6
R5038
47/J6
Q5010
2SC2295-BCTX
TP5001
VJR0646
R5042
47/J6
C5013
1/ZFN
R5043
4700/J6
R5041
1000/J6
C5014
0.1/ZFN
C5012
0.1/ZFN
R5040
47/J6
Q5011
2SC2295-BCTX
R5045
1500/J6
R5044
47/J6
P5003
PAT/VJP1231T
P5004
PAT/VJP1231T
R5046
0/J6
R5047
0/J6
C5015
0.1/ZFN
C5016
1200P/UBN
C5017
1200P/UBN
+3A
C5018
0.1/ZFN
C5021
0.1/ZFN
IC5001
AN3730FA
VCC2
RA2OUT
GND5
LS2
TH
RECH2
PBH2
GND4
HA2IN
HA2FB
HA2ACFB
HA2DMP
TESTH
IRCTR02
MM2CAP
MM0CAP
IRCTR13
ATFOUT
GND6
HAOUT
AGCIN
VCC3
AGCOUT
AGCCTL
AGCDET
ENVOUT
GND1
RECR1
RECR2
CA
INPUT
REC1
PBH
HID
RECCTRL0
RECCTRL2
HA0DMP
HA0ACFB
HA0FB
HA0IN
GND3
PBH0
RECH0
VCC1
LS0
GND2
RA0OUT
VCC1
C5025
0.1/ZFN
C5028
0.1/ZFN
+5A
C5027
0.1/ZFN
C5019
0.1/ZFN
C5020
1000P/UN
R5050
1200/J6
R5051
2200/J6
C5022
0.1/ZFN
C5024
0.1/ZFN
R5048
47/J6
Q5012
2SC2295-BCTX
C5023
0.1/ZFN
R5054
47/J6
TP5002
VJR0646
C5029
0.1/ZFN
R5053
2200/J6
C5026
0.1/ZFN
-5A
R5049
0/J6
R5052
0/J6
(2)
CONS_PB
(3)
RP_AGC
(3)
RP_ATF

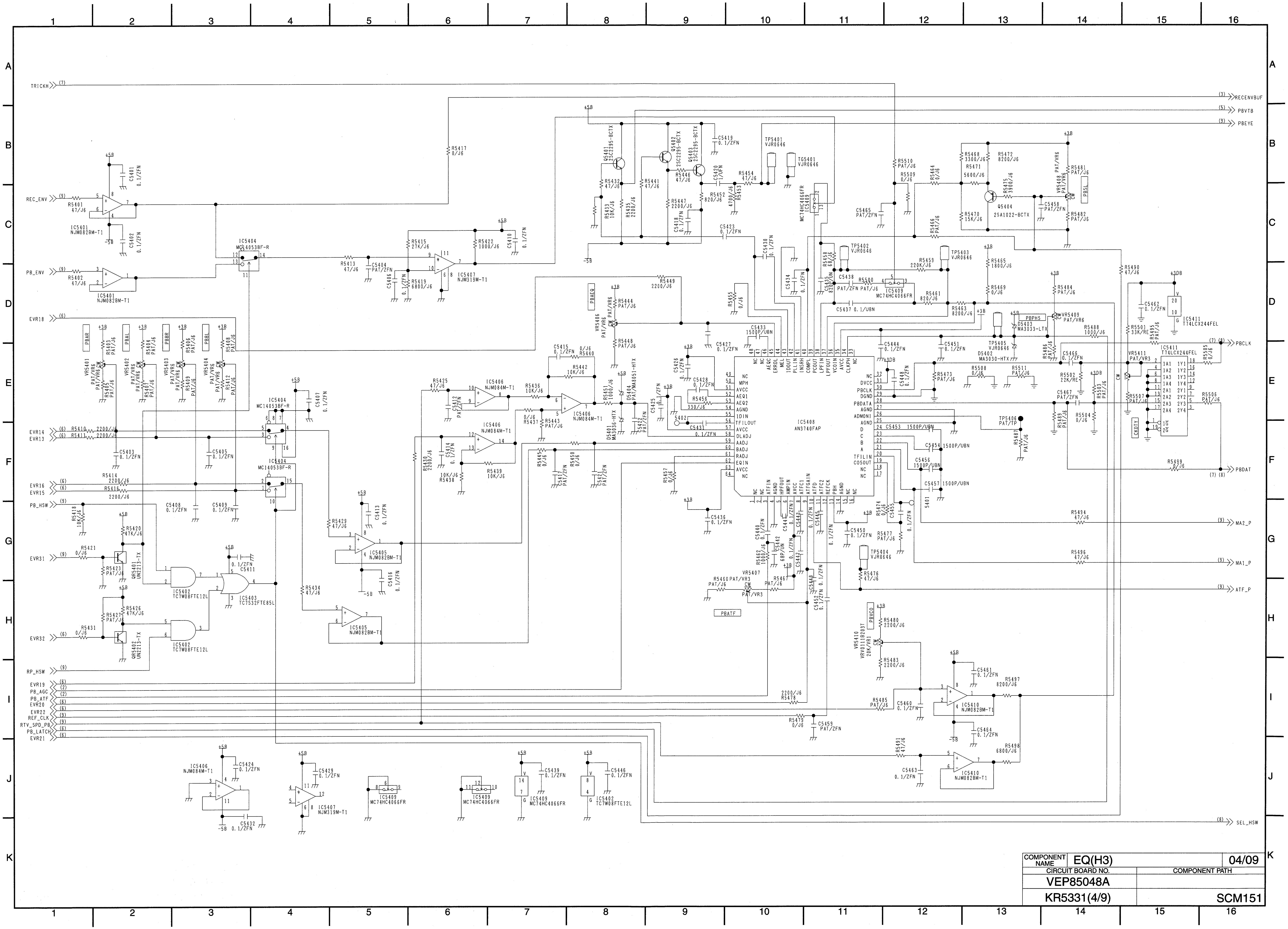
COMPONENT NAME	EQ(H3)	01/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(1/9)		SCM148


CONS_PB (1)
EVR31 (6)
PB_OUT_P (5)
PB_OUT_N (9)
R5101 0/J6
R5102 0/J6
R5104 0/J6
R5105 0/J6
+5B
C5101 0.1/ZFN
D5101 MA3020-TX
C5102 0.1/ZFN
R5103 100/J6
R5106 100/J6
R5108 47/J6
R5109 47/J6
C5103 0.1/ZFN
R5107 220/J6
R5112 220/J6
C5106 PAT/ZFN
R5113 PAT/J6
Q5103
XN5531-TX
Q5101
XN5531-TX
R5115 47/J6
R5119 47/J6
C5105 1/ZFN
R5110 47/J6
C5107 1/ZFN
R5111 47/J6
R5114 47/J6
R5117 47/J6
Q5102 2SC2295-BCTX
Q5104 2SC2295-BCTX
C5104 0.1/ZFN
R5116 2200/J6
R5118 2200/J6
R5120 390/J6
R5122 390/J6
-5B
C5108 0.1/ZFN
R5121 47/J6
Q5105 2SC2295-BCTX
R5123 PAT/J6
C5110 PAT/ZFN
R5126 120/J6
R5131 120/J6
R5128 47/J6
Q5106 2SC2295-BCTX
C5109 0.1/ZFN
R5125 2200/J6
R5127 2200/J6
R5132 180/J6
C5111 0.1/ZFN
R5134 1500/J6
R5136 47/J6
R5124 0/J6
R5130 PAT/J6
+9
R5133 47K/J6
QR5101 UN2213-TX
R5129 47/J6
Q5107 2SC2295-BCTX
C5113 0.1/ZFN
C5116 0.1/ZFN
R5140 PAT/J6
C5114 0.1/ZFN
C5141 PAT/ZFN
R5135 47/J6
C5112 0.1/ZFN
C5138 PAT/ZFN
IC5101 M52055FP-T1
1 IN1B
2 CONT1
3 OUT1
4 GND2
5 OUT2
6 OUT3
7 CONT3
8 IN3A
16 IN1A
15 GND1
14 IN2B
13 VCC
12 CONT2
11 IN2A
10 GND3
9 IN3B
+9
C5119 0.1/ZFN
R5144 10K/J6
C5142 PAT/ZFN
R5153 PAT/J6
R5139 2200/J6
C5115 0.1/ZFN
C5140 PAT/ZFN
C5139 PAT/ZFN
C5121 0.1/ZFN
C5120 0.1/ZFN
C5122 0.1/ZFN
R5154 PAT/J6
R5145 47/J6
Q5109 2SC2295-BCTX
R5146 2200/J6
R5147 47/J6
C5124 0.1/ZFN
R5138 47/J6
Q5108 2SC2295-BCTX
C5117 1/ZFN
R5143 47/J6
TP5101 VJR0646
TG5101 VJR0646
R5142 4700/J6
R5141 1000/J6
R5137 2200/J6
C5118 0.1/ZFN
+3B
C5123 0.1/ZFN
C5129 0.1/ZFN
IC5102 AN3730FA
36 VCC2
35 RA2OUT
34 GND5
33 LS2
32 TH
31 RECH2
30 PBH2
29 GND4
28 HA2IN
27 HA2FB
26 HA2ACFB
25 HA2DMP
37 TESTH
38 IRCTR02
39 MM2CAP
40 MM0CAP
41 IRCTR13
42 ATFOUT
43 GND6
44 HAOUT
45 AGCIN
46 VCC3
47 AGCOUT
48 AGCCTL
24 HA0DMP
23 HA0ACFB
22 HA0FB
21 HA0IN
20 GND3
19 PBH0
18 RECH0
17 VCC1
16 LS0
15 GND2
14 RA0OUT
13 VCC1
1 AGCDET
2 ENVOUT
3 GND1
4 RECR1
5 RECR2
6 CA
7 INPUT
8 REC1
9 PBH
10 HID
11 RECCTRL0
12 RECCTRL2
C5126 1200P/UBN
C5127 1200P/UBN
C5133 0.1/ZFN
+5B
C5135 0.1/ZFN
+3B
C5134 0.1/ZFN
+3B
C5125 0.1/ZFN
C5128 1000P/UN
R5149 1200/J6
R5150 2200/J6
C5130 0.1/ZFN
C5132 0.1/ZFN
+3B
R5148 47/J6
+5B
C5131 0.1/ZFN
Q5110 2SC2295-BCTX
TP5102 VJR0646
R5152 47/J6
C5137 0.1/ZFN
(4) PB_AGC
R5151 2200/J6
C5136 0.1/ZFN
-5B
(4) PB_ATF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

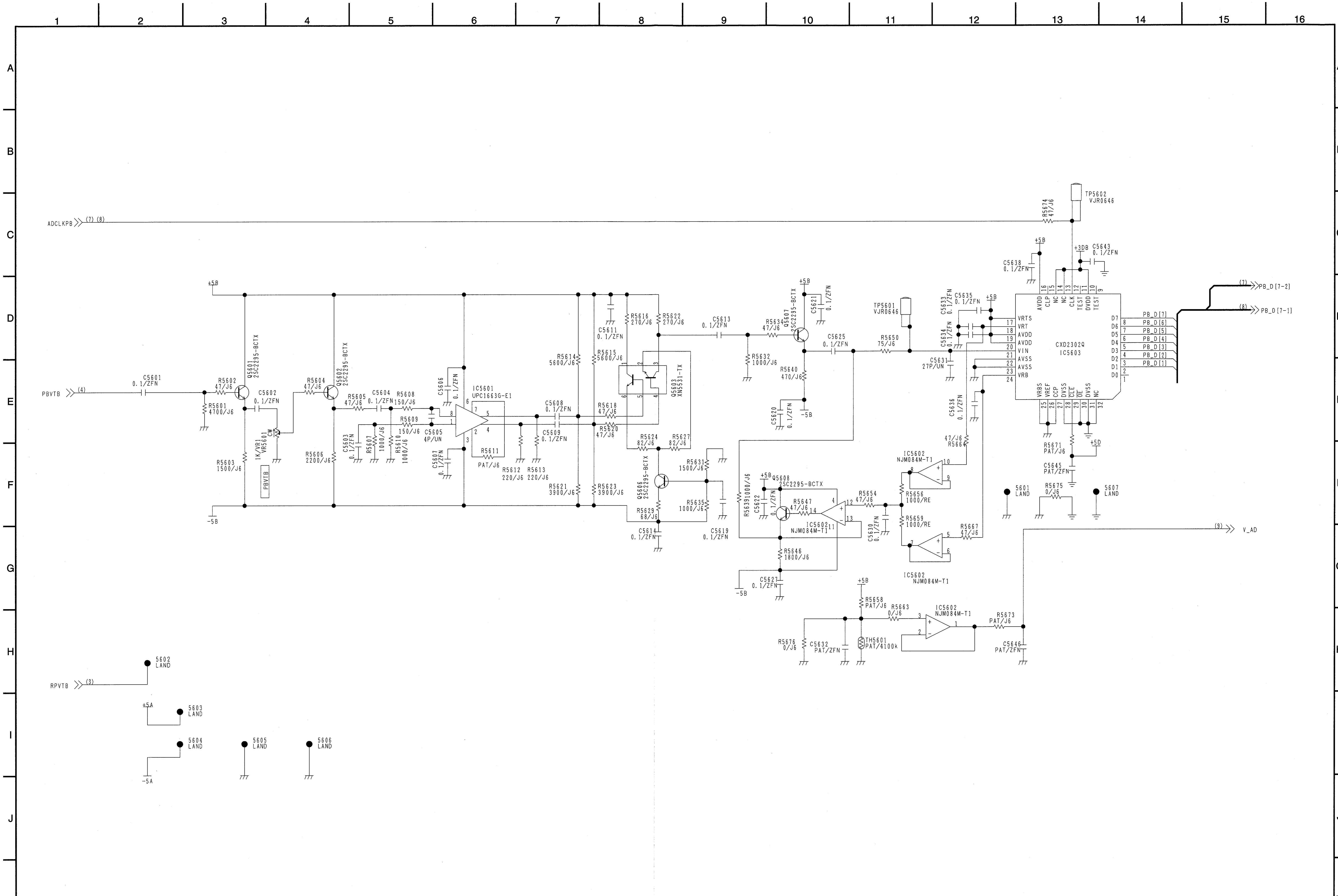
COMPONENT NAME	EQ(H3)	02/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(2/9)		SCM149


TRICKH
RECCTRL_A
RECCTRL_B
EVR6
RECENVBUF
EVR2
EVR1
EVR4
EVR3
RP_HSW
EVR7
RP_AGC
RP_ATF
EVR8
REF_CLK
EVR10
RTV_SPD_RP
RP_LATCH
EVR9
RPVTB
RPEYE
RPCLK
RPDAT
MA2_R
MA1_R
ATF_R
IC5205 TC7SH32FTL
IC5203 NJM319M-T1
IC5202 MC14053BF-R
IC5201 TC7S32FTE85L
IC5204 NJM082BM-T1
IC5206 NJM084M-T1
IC5207 AN3740FAP
IC5208 MC74HC4066FR
IC5209 NJM082BM-T1
IC5210 PAT/T74LCX244FEL
Q5201 2SC2295-BCTX
Q5202 2SC2295-BCTX
Q5203 2SC2295-BCTX
Q5204 2SA1022-BCTX
D5201 MA3036-HTX
D5202 PAT/MA8051-HTX
TH5201 PAT/4100k
TP5201 VJR0646
TG5201 VJR0646
TP5202 VJR0646
TP5203 VJR0646
TP5204 VJR0646
TP5205 PAT/TP
VR5201
VR5202
VR5203
VR5204
VR5206
VR5207
VR5208
VR5209
VR5210
RPAR
RPAL
RPBR
RPBL
RPAEQ
RPSL
RPPHS
RPATF
RPVCO
LAND 5201
+5A
+3A
-5A
+3DA
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

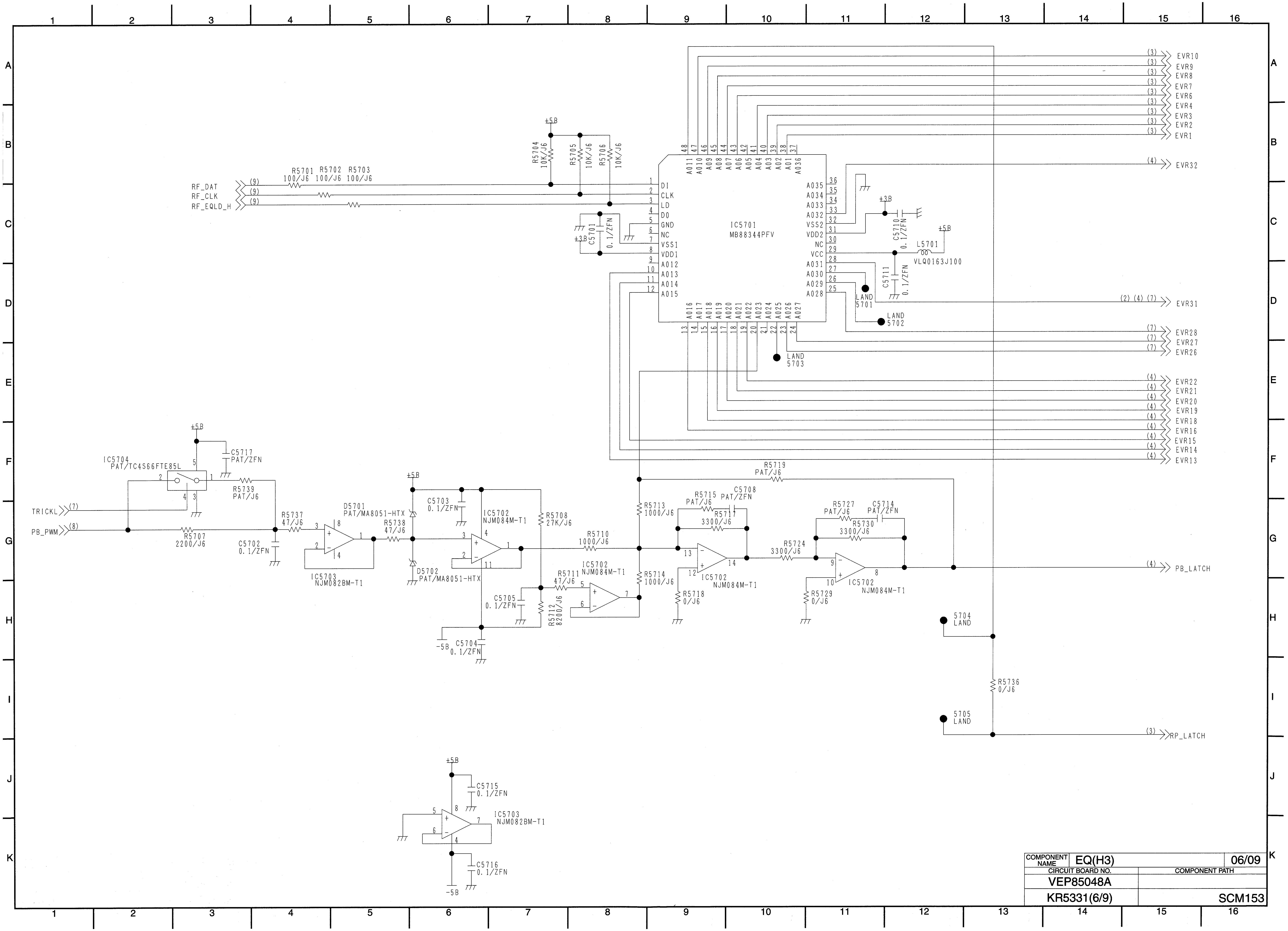
COMPONENT NAME	EQ(H3)	03/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(3/9)		SCM150


TRICKH
RECENVBUF
PBVTB
PBEYE
REC_ENV
PB_ENV
EVR18
EVR14
EVR13
EVR16
EVR15
PB_HSW
EVR31
EVR32
RP_HSW
EVR19
PB_AGC
PB_ATF
EVR20
EVR22
REF_CLK
RTV_SPD_PB
PB_LATCH
EVR21
PBCLK
PBDAT
MA2_P
MA1_P
ATF_P
SEL_HSW
IC5401 NJM082BM-T1
IC5404 MC14053BF-R
IC5407 NJM319M-T1
IC5406 NJM084M-T1
IC5405 NJM082BM-T1
IC5402 TC7W08FTE12L
IC5403 TC7S32FTE85L
IC5408 AN3740FAP
IC5409 MC74HC4066FR
IC5410 NJM082BM-T1
IC5411 T74LCX244FEL
Q5401 2SC2295-BCTX
Q5402 2SC2295-BCTX
Q5403 2SC2295-BCTX
Q5404 2SA1022-BCTX
QR5401 UN2213-TX
QR5402 UN2213-TX
D5401 MA3036-HTX
D5402 MA3030-HTX
D5403 MA3033-LTX
D5404 PAT/MA8051-HTX
TP5401 VJR0646
TP5402 VJR0646
TP5403 VJR0646
TP5404 VJR0646
TP5405 VJR0646
TP5406 PAT/TP
VR5410 VRV011182037 20K/VR1
PBAR
PBAL
PBBR
PBBL
PBAEQ
PBPHS
PBSL
PBATF
PBVCO
CKOTY
+5B
-5B
+3B
+3DB

COMPONENT NAME	EQ(H3)	04/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(4/9)		SCM151


ADCLKPB (7) (8)
PBVTB (4)
RPVTB (3)
+5B
-5B
+5A
-5A
C5601 0.1/ZFN
R5601 4700/J6
R5602 47/J6
Q5601 2SC2295-BCTX
C5602 0.1/ZFN
VR5601 1K/VR1
CW
PBVTB
R5603 1500/J6
R5604 47/J6
Q5602 2SC2295-BCTX
R5605 47/J6
C5604 0.1/ZFN
R5608 150/J6
R5609 150/J6
C5603 0.1/ZFN
R5607 1000/J6
R5610 1000/J6
R5606 2200/J6
C5605 4P/UN
C5606 0.1/ZFN
C5607 0.1/ZFN
IC5601 UPC1663G-E1
R5611 PAT/J6
R5612 220/J6
R5613 220/J6
C5608 0.1/ZFN
C5609 0.1/ZFN
R5614 5600/J6
R5615 5600/J6
C5611 0.1/ZFN
R5616 270/J6
R5622 270/J6
R5618 47/J6
R5620 47/J6
Q5603 XN5531-TX
R5621 3900/J6
R5623 3900/J6
R5624 82/J6
R5627 82/J6
R5631 1500/J6
R5635 1000/J6
Q5606 2SC2295-BCTX
R5629 68/J6
C5614 0.1/ZFN
C5619 0.1/ZFN
C5613 0.1/ZFN
R5634 47/J6
Q5607 2SC2295-BCTX
+5B
C5621 0.1/ZFN
R5632 1000/J6
R5640 470/J6
C5620 0.1/ZFN
-5B
C5625 0.1/ZFN
TP5601 VJR0646
R5650 75/J6
C5631 27P/UN
C5633 0.1/ZFN
C5634 0.1/ZFN
C5635 0.1/ZFN
C5636 0.1/ZFN
R5639 1000/J6
Q5608 2SC2295-BCTX
C5622 0.1/ZFN
R5647 47/J6
IC5602 NJM084M-T1
R5646 1800/J6
C5627 0.1/ZFN
-5B
R5654 47/J6
C5630 0.1/ZFN
R5656 1000/RE
R5659 1000/RE
R5664 47/J6
R5667 47/J6
IC5602 NJM084M-T1
TP5602 VJR0646
R5674 47/J6
C5638 0.1/ZFN
+3DB
C5643 0.1/ZFN
CXD2302Q IC5603
AVDD CLP NC NC CLK TEST DVDD TEST
VRTS VRT AVDD AVDD VIN AVSS AVSS VRB
VRBS VREF CCP DVSS CLE OE DVSS NC
D7 D6 D5 D4 D3 D2 D1 D0
PB_D[7] PB_D[6] PB_D[5] PB_D[4] PB_D[3] PB_D[2] PB_D[1]
(7) PB_D[7-2]
(8) PB_D[7-1]
R5671 PAT/J6
+5D
C5645 PAT/ZFN
5601 LAND
5607 LAND
R5675 0/J6
(9) V_AD
+5B
R5658 PAT/J6
R5663 0/J6
R5676 0/J6
C5632 PAT/ZFN
TH5601 PAT/4100k
R5673 PAT/J6
C5646 PAT/ZFN
5602 LAND
5603 LAND
5604 LAND
5605 LAND
5606 LAND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	EQ(H3)	05/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(5/9)		SCM152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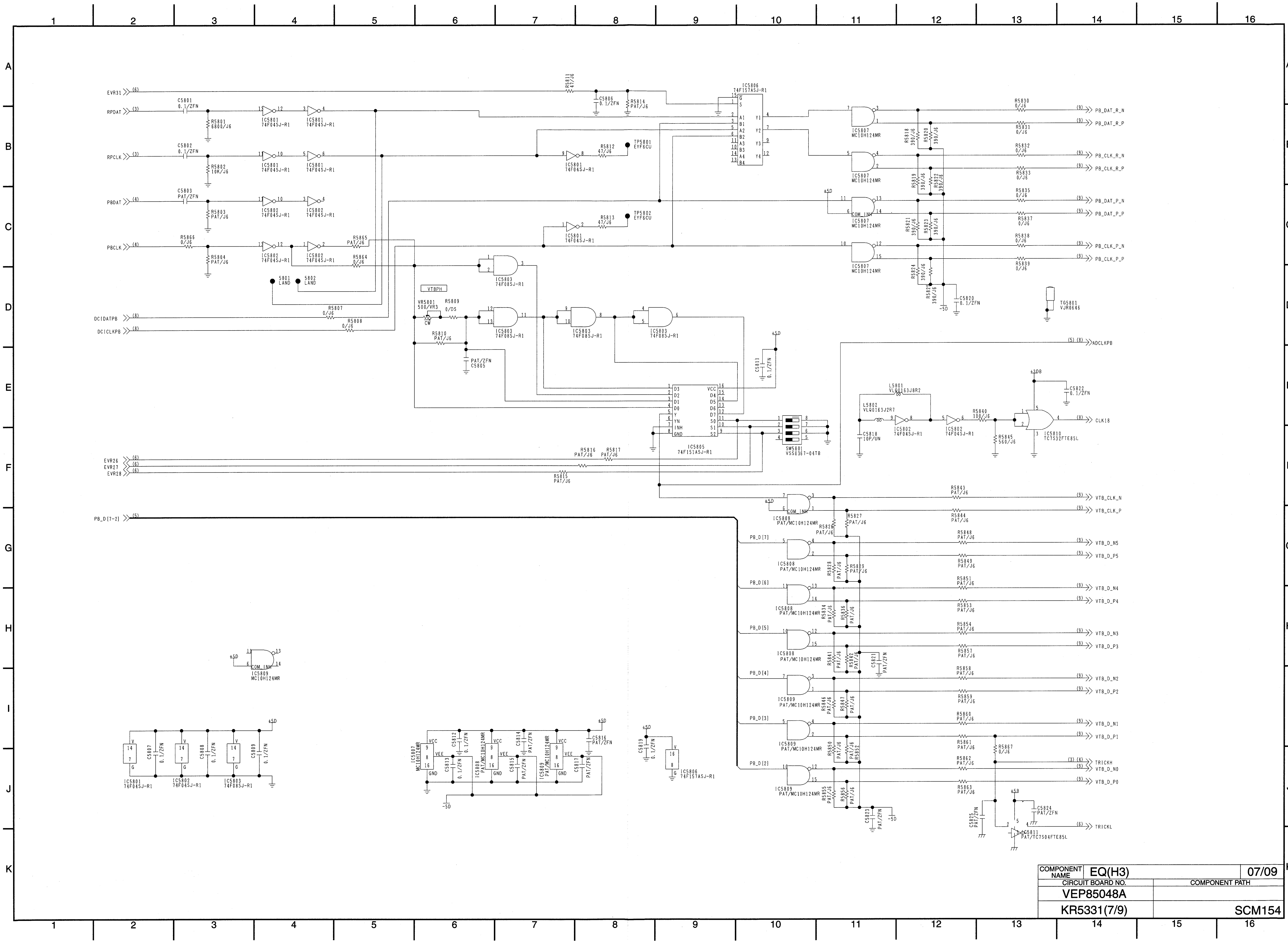
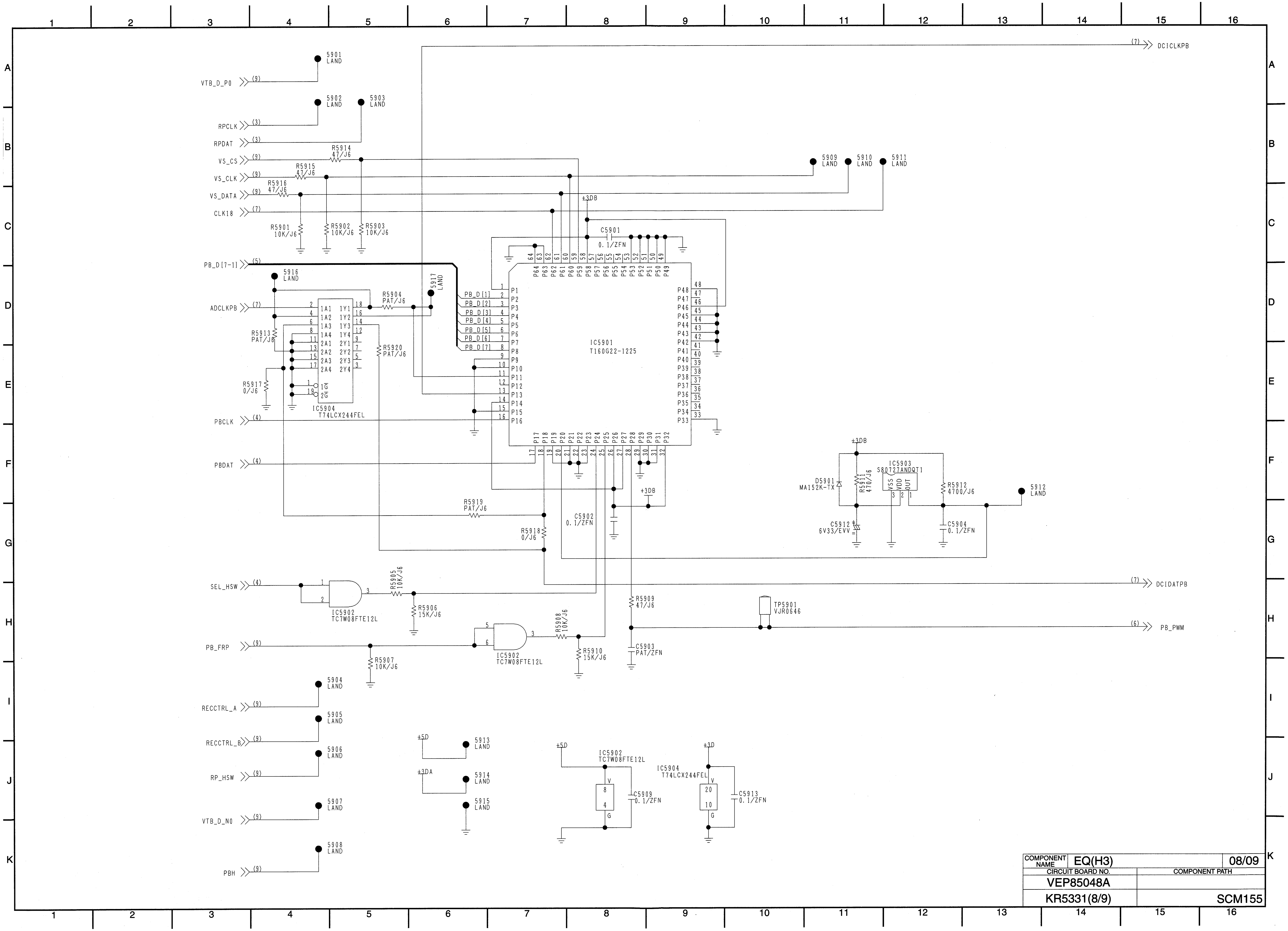
16
A
B
C
D
E
F
G
H
I
J
K
RF_DAT
RF_CLK
RF_EQLD_H
(9)
R5701
100/J6
R5702
100/J6
R5703
100/J6
+5B
R5704
10K/J6
R5705
10K/J6
R5706
10K/J6
C5701
0.1/ZFN
+3B
DI
CLK
LD
DO
GND
NC
VSS1
VDD1
A012
A013
A014
A015
IC5701
MB88344PFV
A011
A010
A09
A08
A07
A06
A05
A04
A03
A02
A01
A036
A035
A034
A033
A032
VSS2
VDD2
NC
VCC
A031
A030
A029
A028
A016
A017
A018
A019
A020
A021
A022
A023
A024
A025
A026
A027
C5710
0.1/ZFN
L5701
VLQ0163J100
C5711
0.1/ZFN
LAND
5701
LAND
5702
LAND
5703
(3) EVR10
(3) EVR9
(3) EVR8
(3) EVR7
(3) EVR6
(3) EVR4
(3) EVR3
(3) EVR2
(3) EVR1
(4) EVR32
(2) (4) (7) EVR31
(7) EVR28
(7) EVR27
(7) EVR26
(4) EVR22
(4) EVR21
(4) EVR20
(4) EVR19
(4) EVR18
(4) EVR16
(4) EVR15
(4) EVR14
(4) EVR13
IC5704
PAT/TC4S66FTE85L
C5717
PAT/ZFN
R5739
PAT/J6
TRICKL (7)
PB_PWM (8)
R5707
2200/J6
C5702
0.1/ZFN
R5737
47/J6
IC5703
NJM082BM-T1
D5701
PAT/MA8051-HTX
R5738
47/J6
D5702
PAT/MA8051-HTX
C5703
0.1/ZFN
IC5702
NJM084M-T1
R5708
27K/J6
C5705
0.1/ZFN
-5B
C5704
0.1/ZFN
R5711
47/J6
R5712
8200/J6
R5710
1000/J6
R5719
PAT/J6
R5713
1000/J6
R5714
1000/J6
R5715
PAT/J6
C5708
PAT/ZFN
R5717
3300/J6
R5718
0/J6
R5724
3300/J6
R5727
PAT/J6
C5714
PAT/ZFN
R5730
3300/J6
R5729
0/J6
(4) PB_LATCH
5704
LAND
R5736
0/J6
5705
LAND
(3) RP_LATCH
C5715
0.1/ZFN
C5716
0.1/ZFN

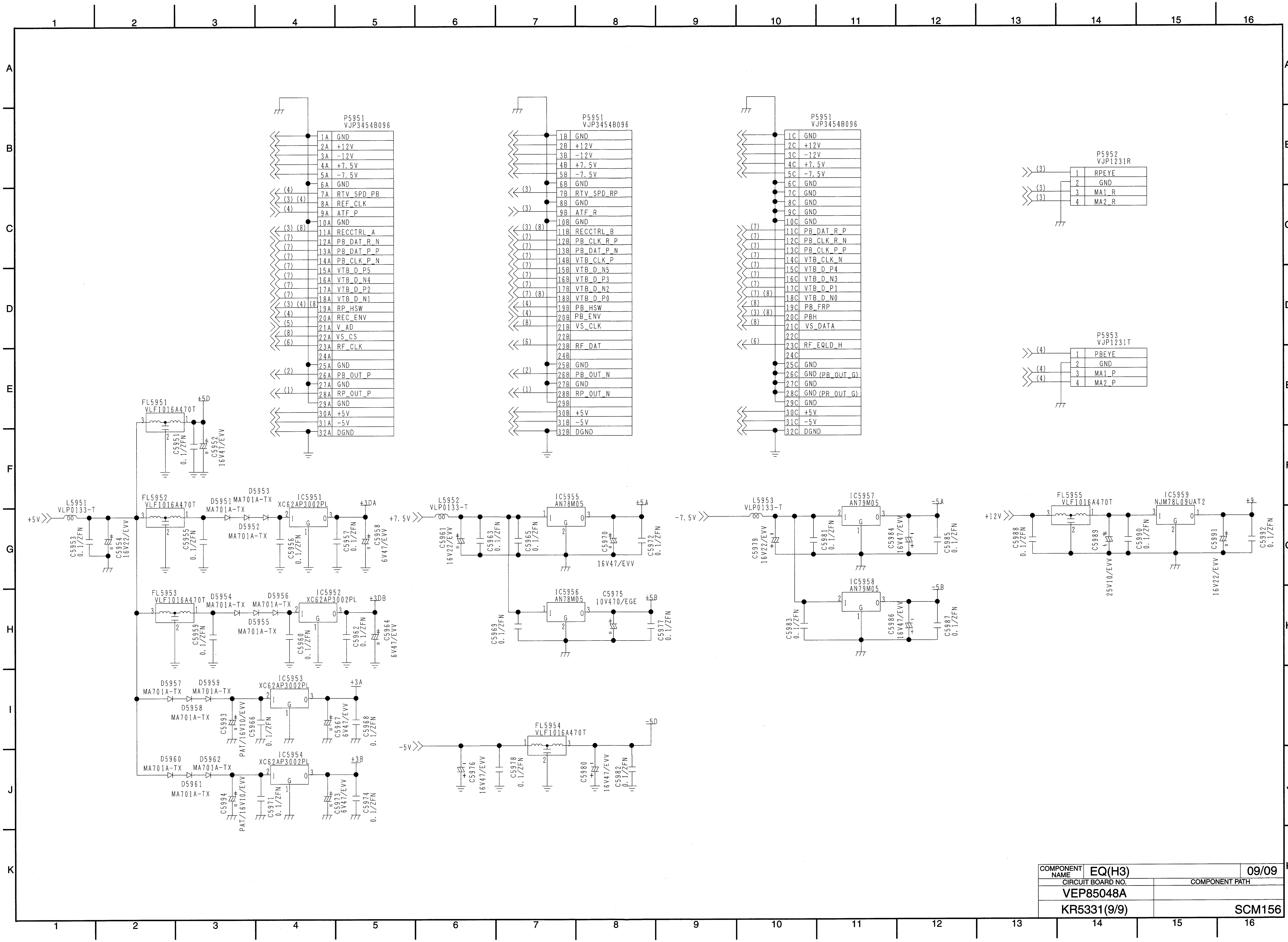
COMPONENT NAME	EQ(H3)	06/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(6/9)	SCM153	


EVR31 (6)
RPDAT (3)
RPCLK (3)
PBDAT (4)
PBCLK (4)
DCIDATPB (8)
DCICLKPB (8)
EVR26 (6)
EVR27 (6)
EVR28 (6)
PB_D[7-2] (5)
C5801 0.1/ZFN
C5802 0.1/ZFN
C5803 PAT/ZFN
R5801 6800/J6
R5802 10K/J6
R5803 PAT/J6
R5804 PAT/J6
R5866 0/J6
IC5801 74F04SJ-R1
IC5802 74F04SJ-R1
IC5803 74F08SJ-R1
R5865 PAT/J6
R5864 0/J6
5801 LAND
5802 LAND
R5807 0/J6
R5808 0/J6
VTBPH
VR5801 500/VR3
CW
R5809 0/DS
R5810 PAT/J6
PAT/ZFN C5805
R5811 47/J6
C5806 0.1/ZFN
R5814 PAT/J6
IC5806 74F157ASJ-R1
R5812 47/J6
TP5801 EYF6CU
R5813 47/J6
TP5802 EYF6CU
IC5805 74F151ASJ-R1
C5811 0.1/ZFN
SW5801 VSS0367-04TB
R5816 PAT/J6
R5817 PAT/J6
R5815 PAT/J6
IC5807 MC10H124MR
R5818 390/J6
R5820 390/J6
R5819 390/J6
R5822 390/J6
R5821 390/J6
R5823 390/J6
R5824 390/J6
R5825 390/J6
C5820 0.1/ZFN
-5D
+5D
COM_INH
R5830 0/J6
R5831 0/J6
R5832 0/J6
R5833 0/J6
R5835 0/J6
R5837 0/J6
R5838 0/J6
R5839 0/J6
(9) PB_DAT_R_N
(9) PB_DAT_R_P
(9) PB_CLK_R_N
(9) PB_CLK_R_P
(9) PB_DAT_P_N
(9) PB_DAT_P_P
(9) PB_CLK_P_N
(9) PB_CLK_P_P
TG5801 VJR0665
(5) (8) ADCLKPB
L5801 VLQ0163J8R2
L5802 VLQ0163J2R7
C5818 10P/UN
R5840 100/J6
R5845 560/J6
+3DB
C5822 0.1/ZFN
IC5810 TC7S32FTE85L
(8) CLK18
IC5808 PAT/MC10H124MR
IC5809 PAT/MC10H124MR
PB_D[7]
PB_D[6]
PB_D[5]
PB_D[4]
PB_D[3]
PB_D[2]
R5843 PAT/J6
R5844 PAT/J6
R5826 PAT/J6
R5827 PAT/J6
R5828 PAT/J6
R5829 PAT/J6
R5834 PAT/J6
R5836 PAT/J6
R5841 PAT/J6
R5842 PAT/J6
R5846 PAT/J6
R5847 PAT/J6
R5850 PAT/J6
R5852 PAT/J6
R5855 PAT/J6
R5856 PAT/J6
R5848 PAT/J6
R5849 PAT/J6
R5851 PAT/J6
R5853 PAT/J6
R5854 PAT/J6
R5857 PAT/J6
R5858 PAT/J6
R5859 PAT/J6
R5860 PAT/J6
R5861 PAT/J6
R5862 PAT/J6
R5863 PAT/J6
R5867 0/J6
C5821 PAT/ZFN
C5823 PAT/ZFN
C5824 PAT/ZFN
C5825 PAT/ZFN
IC5811 PAT/TC7S04FTE85L
(9) VTB_CLK_N
(9) VTB_CLK_P
(9) VTB_D_N5
(9) VTB_D_P5
(9) VTB_D_N4
(9) VTB_D_P4
(9) VTB_D_N3
(9) VTB_D_P3
(9) VTB_D_N2
(9) VTB_D_P2
(9) VTB_D_N1
(9) VTB_D_P1
(3) (4) TRICKH
(9) VTB_D_N0
(9) VTB_D_P0
(6) TRICKL
IC5809 MC10H124MR
C5807 0.1/ZFN
C5808 0.1/ZFN
C5809 0.1/ZFN
IC5807 MC10H124MR
IC5808 PAT/MC10H124MR
IC5809 PAT/MC10H124MR
C5812 0.1/ZFN
C5813 0.1/ZFN
C5814 PAT/ZFN
C5815 PAT/ZFN
C5816 PAT/ZFN
C5817 PAT/ZFN
C5819 0.1/ZFN
IC5806 74F157ASJ-R1
VCC
VEE
GND

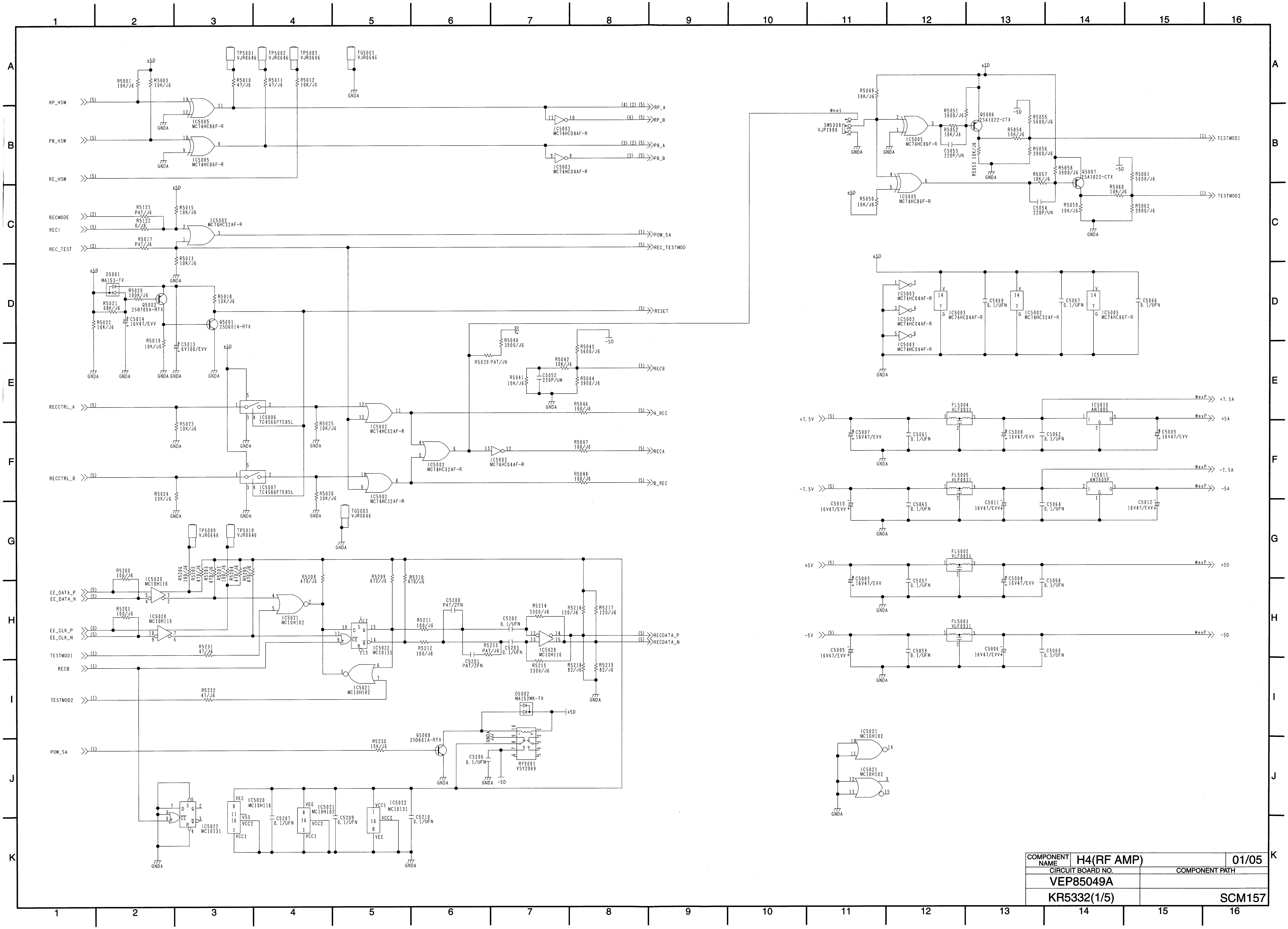
COMPONENT NAME	EQ(H3)	07/09
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85048A		
KR5331(7/9)		SCM154


VTB_D_P0 (9)
5901 LAND
5902 LAND
5903 LAND
RPCLK (3)
RPDAT (3)
VS_CS (9)
R5914 47/J6
VS_CLK (9)
R5915 47/J6
VS_DATA (9)
R5916 47/J6
CLK18 (7)
R5901 10K/J6
R5902 10K/J6
R5903 10K/J6
+3DB
C5901 0.1/ZFN
(7) DCICLKPB
5909 LAND
5910 LAND
5911 LAND
PB_D[7-1] (5)
5916 LAND
5917 LAND
ADCLKPB (7)
R5904 PAT/J6
R5913 PAT/J6
R5917 0/J6
R5920 PAT/J6
IC5904 T74LCX244FEL
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4 1G 2G
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
PB_D[1] PB_D[2] PB_D[3] PB_D[4] PB_D[5] PB_D[6] PB_D[7]
IC5901 T160G22-1225
PBCLK (4)
PBDAT (4)
R5919 PAT/J6
R5918 0/J6
C5902 0.1/ZFN
+3DB
+3DB
IC5903 S80727ANDQT1
VSS VDD OUT
D5901 MA152K-TX
R5911 470/J6
R5912 4700/J6
5912 LAND
C5912 6V33/EVV
C5904 0.1/ZFN
SEL_HSW (4)
IC5902 TC7W08FTE12L
R5905 10K/J6
R5906 15K/J6
(7) DCIDATPB
R5909 47/J6
TP5901 VJR0646
(6) PB_PWM
PB_FRP (9)
R5907 10K/J6
IC5902 TC7W08FTE12L
R5908 10K/J6
R5910 15K/J6
C5903 PAT/ZFN
5904 LAND
RECCTRL_A (9)
5905 LAND
RECCTRL_B (9)
5906 LAND
RP_HSW (9)
5907 LAND
VTB_D_N0 (9)
5908 LAND
PBH (9)
+5D
5913 LAND
+3DA
5914 LAND
5915 LAND
+5D
IC5902 TC7W08FTE12L
C5909 0.1/ZFN
+3D
IC5904 T74LCX244FEL
C5913 0.1/ZFN
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	EQ(H3)	08/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(8/9)		SCM155


P5951
VJP3454B096
1A GND
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A GND
7A RTV_SPD_PB
8A REF_CLK
9A ATF_P
10A GND
11A RECCTRL_A
12A PB_DAT_R_N
13A PB_DAT_P_P
14A PB_CLK_P_N
15A VTB_D_P5
16A VTB_D_N4
17A VTB_D_P2
18A VTB_D_N1
19A RP_HSW
20A REC_ENV
21A V_AD
22A VS_CS
23A RF_CLK
24A
25A GND
26A PB_OUT_P
27A GND
28A RP_OUT_P
29A GND
30A +5V
31A -5V
32A DGND
P5951
VJP3454B096
1B GND
2B +12V
3B -12V
4B +7.5V
5B -7.5V
6B GND
7B RTV_SPD_RP
8B GND
9B ATF_R
10B GND
11B RECCTRL_B
12B PB_CLK_R_P
13B PB_DAT_P_N
14B VTB_CLK_P
15B VTB_D_N5
16B VTB_D_P3
17B VTB_D_N2
18B VTB_D_P0
19B PB_HSW
20B PB_ENV
21B VS_CLK
22B
23B RF_DAT
24B
25B GND
26B PB_OUT_N
27B GND
28B RP_OUT_N
29B
30B +5V
31B -5V
32B DGND
P5951
VJP3454B096
1C GND
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C GND
7C GND
8C GND
9C GND
10C GND
11C PB_DAT_R_P
12C PB_CLK_R_N
13C PB_CLK_P_P
14C VTB_CLK_N
15C VTB_D_P4
16C VTB_D_N3
17C VTB_D_P1
18C VTB_D_N0
19C PB_FRP
20C PBH
21C VS_DATA
22C
23C RF_EQLD_H
24C
25C GND
26C GND (PB_OUT_G)
27C GND
28C GND (PR_OUT_G)
29C GND
30C +5V
31C -5V
32C DGND
(3) (4) (7) (8) (1) (2) (5) (6)
P5952
VJP1231R
1 RPEYE
2 GND
3 MA1_R
4 MA2_R
P5953
VJP1231T
1 PBEYE
2 GND
3 MA1_P
4 MA2_P
FL5951 VLF1016A470T
+5D
C5951 0.1/ZFN
C5952 16V47/EVV
+5V
L5951 VLP0133-T
C5953 0.1/ZFN
C5954 16V22/EVV
FL5952 VLF1016A470T
C5955 0.1/ZFN
D5951 MA701A-TX
D5952 MA701A-TX
D5953 MA701A-TX
IC5951 XC62AP3002PL
C5956 0.1/ZFN
C5957 0.1/ZFN
C5958 6V47/EVV
+3DA
FL5953 VLF1016A470T
C5959 0.1/ZFN
D5954 MA701A-TX
D5955 MA701A-TX
D5956 MA701A-TX
IC5952 XC62AP3002PL
C5960 0.1/ZFN
C5962 0.1/ZFN
C5964 6V47/EVV
+3DB
D5957 MA701A-TX
D5958 MA701A-TX
D5959 MA701A-TX
IC5953 XC62AP3002PL
C5993 PAT/16V10/EVV
C5966 0.1/ZFN
C5967 6V47/EVV
C5968 0.1/ZFN
+3A
D5960 MA701A-TX
D5961 MA701A-TX
D5962 MA701A-TX
IC5954 XC62AP3002PL
C5994 PAT/16V10/EVV
C5971 0.1/ZFN
C5973 6V47/EVV
C5974 0.1/ZFN
+3B
+7.5V
L5952 VLP0133-T
C5961 16V22/EVV
C5963 0.1/ZFN
C5965 0.1/ZFN
IC5955 AN78M05
C5970 16V47/EVV
C5972 0.1/ZFN
+5A
IC5956 AN78M05
C5969 0.1/ZFN
C5975 10V470/EGE
C5977 0.1/ZFN
+5B
-5V
C5976 16V47/EVV
C5978 0.1/ZFN
FL5954 VLF1016A470T
C5980 16V47/EVV
C5982 0.1/ZFN
-5D
-7.5V
L5953 VLP0133-T
C5979 16V22/EVV
C5981 0.1/ZFN
IC5957 AN79M05
C5984 16V47/EVV
C5985 0.1/ZFN
-5A
IC5958 AN79M05
C5983 0.1/ZFN
C5986 16V47/EVV
C5987 0.1/ZFN
-5B
+12V
C5988 0.1/ZFN
FL5955 VLF1016A470T
C5989 25V10/EVV
C5990 0.1/ZFN
IC5959 NJM78L09UAT2
C5991 16V22/EVV
C5992 0.1/ZFN
+9

COMPONENT NAME	EQ(H3)	09/09
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85048A		
KR5331(9/9)		SCM156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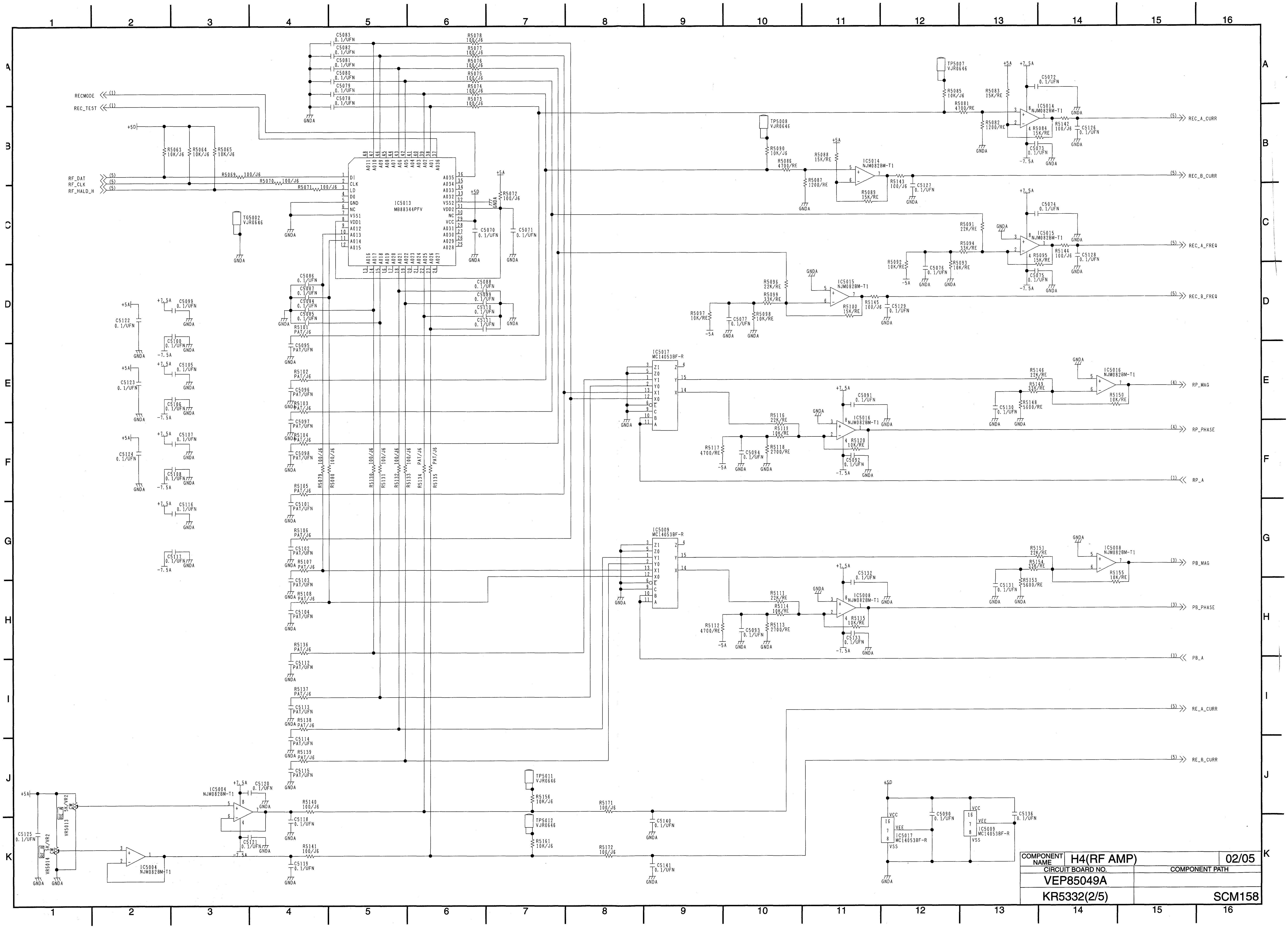
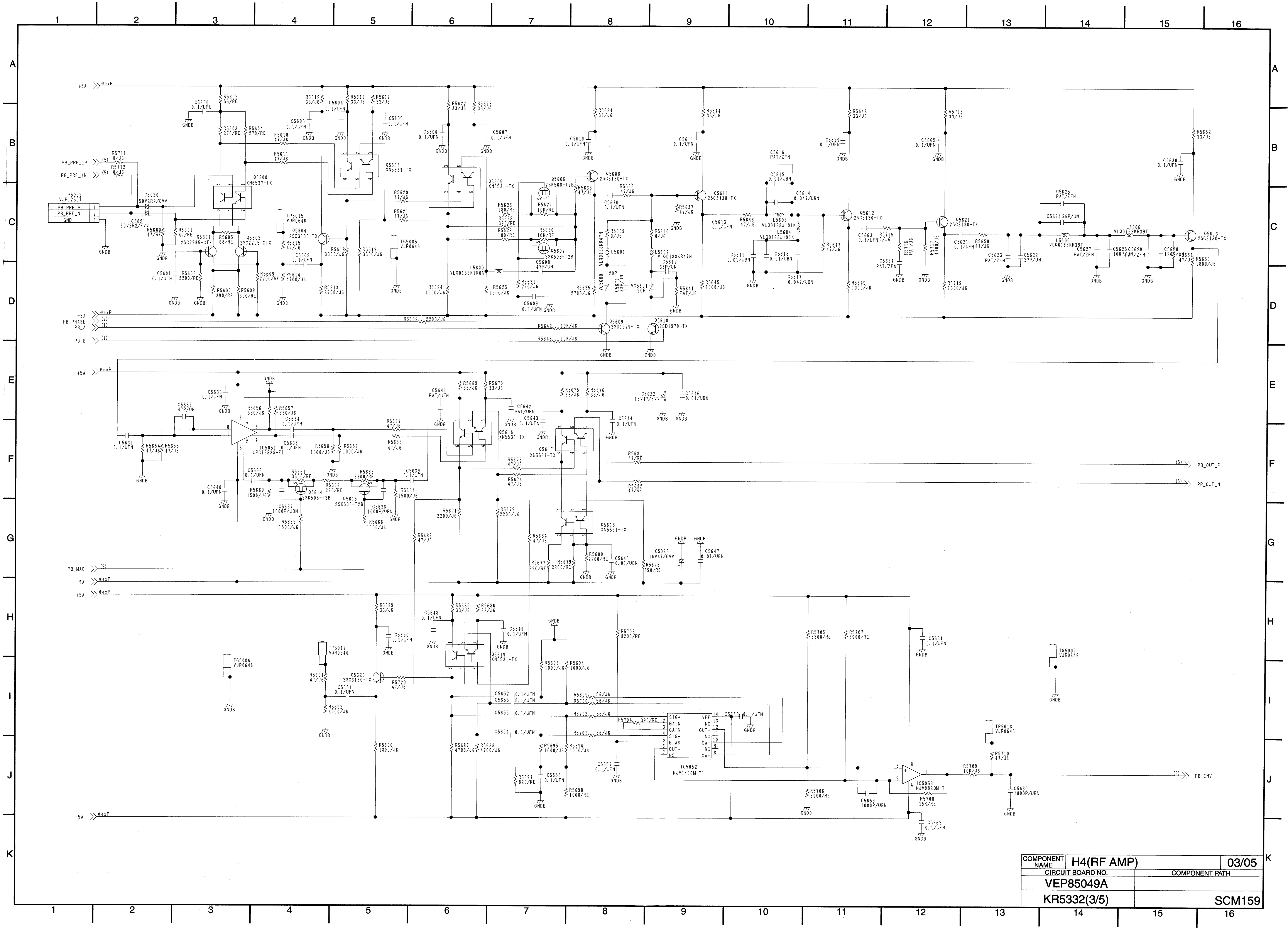
14
15
16
A
B
C
D
E
F
G
H
I
J
K
RP_HSW
PB_HSW
RE_HSW
RECMODE
RECI
REC_TEST
RECCTRL_A
RECCTRL_B
EE_DATA_P
EE_DATA_N
EE_CLK_P
EE_CLK_N
TESTMOD1
RECB
TESTMOD2
POW_SA
RP_A
RP_B
PB_A
PB_B
POW_SA
REC_TESTMOD
RESET
RECB
A_REC
RECA
B_REC
RECDATA_P
RECDATA_N
TESTMOD1
TESTMOD2
IC5005 MC74HC86F-R
IC5003 MC74HC04AF-R
IC5002 MC74HC32AF-R
IC5006 TC4S66FTE85L
IC5007 TC4S66FTE85L
IC5020 MC10H116
IC5021 MC10H102
IC5022 MC10131
IC5010 AN7805
IC5011 AN7905F
Q5001 2SD601A-RTX
Q5002 2SB709A-RTX
Q5006 2SA1022-CTX
Q5007 2SA1022-CTX
Q5008 2SD601A-RTX
D5001 MA153-TX
D5002 MA152WK-TX
RY5001 VSY2069
SW5008 VJP1990
FL5002 VLF0931
FL5003 VLF0931
FL5004 VLF0931
FL5005 VLF0931
TP5001 VJR0646
TP5002 VJR0646
TP5003 VJR0646
TP5009 VJR0646
TP5010 VJR0646
TG5001 VJR0646
TG5003 VJR0646
+7.5V
-7.5V
+5V
-5V
+7.5A
+5A
-7.5A
-5A
+5D
-5D
GNDA

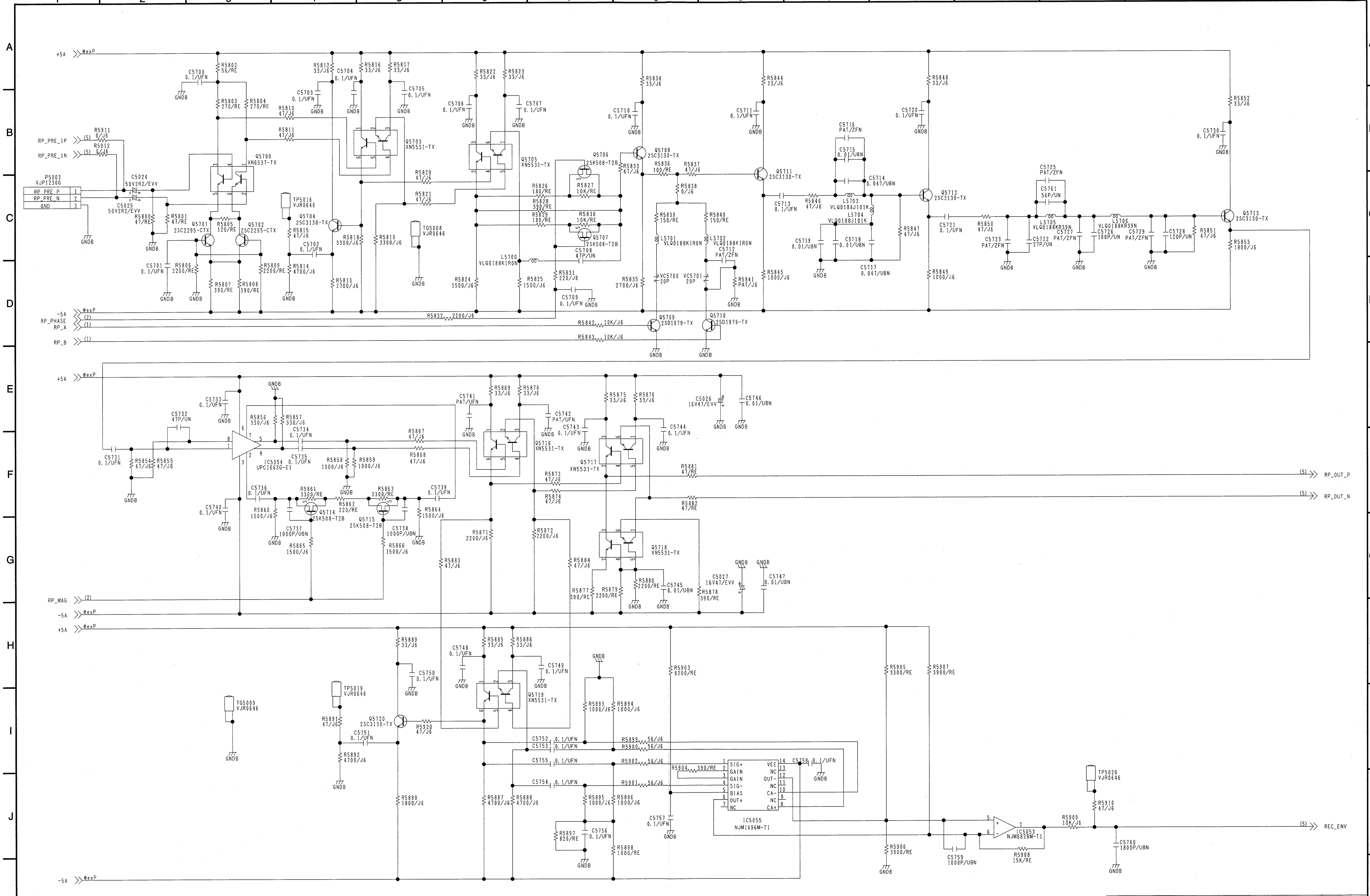
COMPONENT NAME	H4(RF AMP)	01/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(1/5)		SCM157


RECMODE
REC_TEST
RF_DAT
RF_CLK
RF_HALD_H
+5D
R5063 10K/J6
R5064 10K/J6
R5065 10K/J6
R5069 100/J6
R5070 100/J6
R5071 100/J6
IC5013 M88344PFV
TG5002 VJR0646
C5083 0.1/UFN
C5082 0.1/UFN
C5081 0.1/UFN
C5080 0.1/UFN
C5079 0.1/UFN
C5078 0.1/UFN
R5078 100/J6
R5077 100/J6
R5076 100/J6
R5075 100/J6
R5074 100/J6
R5073 100/J6
R5072 100/J6
C5070 0.1/UFN
C5071 0.1/UFN
GNDA
+5A
-7.5A
+7.5A
TP5007 VJR0646
TP5008 VJR0646
IC5014 NJM082BM-T1
IC5015 NJM082BM-T1
REC_A_CURR
REC_B_CURR
REC_A_FREQ
REC_B_FREQ
IC5017 MC14053BF-R
IC5009 MC14053BF-R
IC5016 NJM082BM-T1
IC5008 NJM082BM-T1
RP_MAG
RP_PHASE
RP_A
PB_MAG
PB_PHASE
PB_A
RE_A_CURR
RE_B_CURR
IC5004 NJM082BM-T1
VR5013 5K/VR2
VR5014 5K/VR2
TP5011 VJR0646
TP5012 VJR0646
R5156 10K/J6
R5161 10K/J6
R5140 100/J6
R5141 100/J6
R5171 100/J6
R5172 100/J6
C5140 0.1/UFN
C5141 0.1/UFN
C5090 0.1/UFN
C5136 0.1/UFN
IC5017 MC14053BF-R
IC5009 MC14053BF-R
VCC
VEE
VSS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

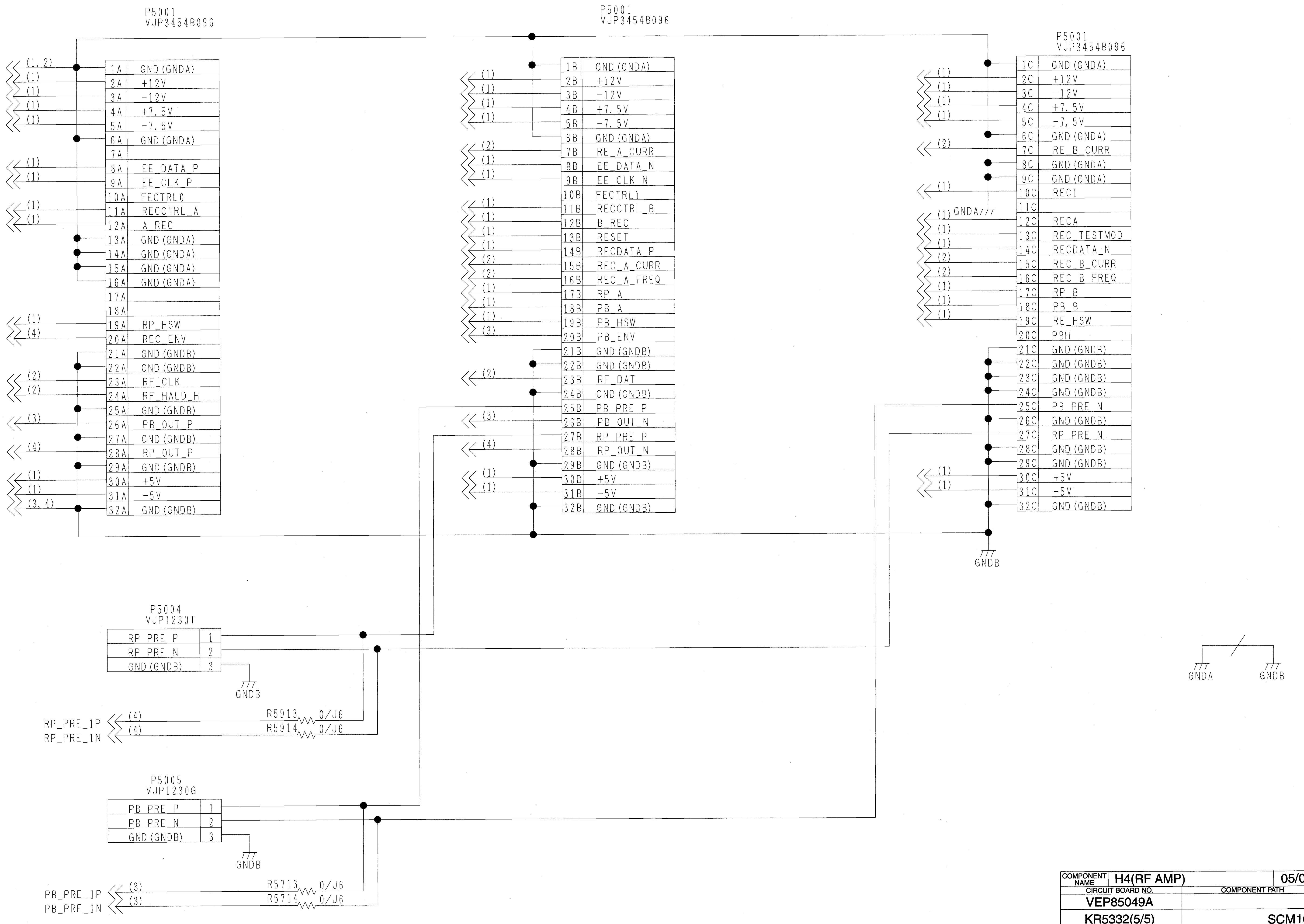
COMPONENT NAME	H4(RF AMP)	02/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(2/5)		SCM158


+5A
@exP
-5A
PB_PRE_1P
PB_PRE_1N
P5002
VJP1230T
PB_PRE_P
PB_PRE_N
GND
PB_PHASE
PB_A
PB_B
PB_MAG
PB_OUT_P
PB_OUT_N
PB_ENV
GNDB
Q5600 XN6537-TX
Q5601 2SC2295-CTX
Q5602 2SC2295-CTX
Q5603 XN5531-TX
Q5604 2SC3130-TX
Q5605 XN5531-TX
Q5606 2SK508-T2B
Q5607 2SK508-T2B
Q5608 2SC3130-TX
Q5609 2SD1979-TX
Q5610 2SD1979-TX
Q5611 2SC3130-TX
Q5612 2SC3130-TX
Q5613 2SC3130-TX
Q5614 2SK508-T2B
Q5615 2SK508-T2B
Q5616 XN5531-TX
Q5617 XN5531-TX
Q5618 XN5531-TX
Q5619 XN5531-TX
Q5620 2SC3130-TX
Q5621 2SC3130-TX
IC5051 UPC1663G-E1
IC5052 NJM1496M-T1
IC5053 NJM082BM-T1
L5600 VLQ0188K1R0N
L5601 VLQ0188KR47N
L5602 VLQ0188KR47N
L5603 VLQ0188J101K
L5604 VLQ0188J101K
L5605 VLQ0163KR39T
L5606 VLQ0163KR39T
TP5015 VJR0646
TP5017 VJR0646
TP5018 VJR0646
TG5005 VJR0646
TG5006 VJR0646
TG5007 VJR0646
C5020 50V2R2/EVV
C5021 50V2R2/EVV
C5022 16V47/EVV
C5023 16V47/EVV
SIG+
GAIN
GAIN
SIG-
BIAS
OUT+
NC
VEE
NC
OUT-
NC
CA-
NC
CA+

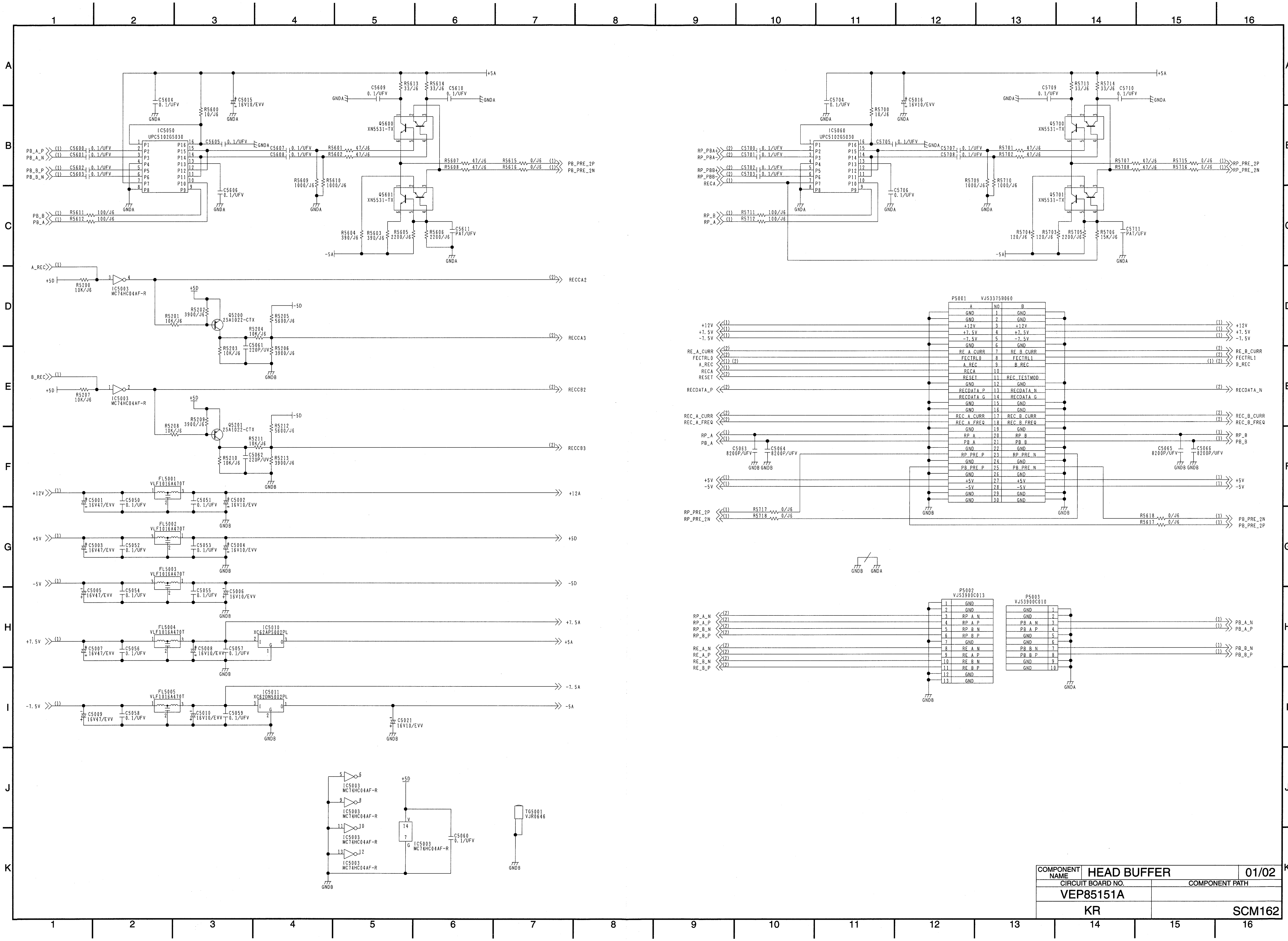
COMPONENT NAME	H4(RF AMP)	03/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(3/5)		SCM159


+5A
-5A
RP_PRE_1P
RP_PRE_1N
P5003
VJP1230G
RP_PRE_P
RP_PRE_N
GND
RP_PHASE
RP_A
RP_B
RP_MAG
RP_OUT_P
RP_OUT_N
REC_ENV
GNDB
Q5700 XN6537-TX
Q5701 2SC2295-CTX
Q5702 2SC2295-CTX
Q5703 XN5531-TX
Q5704 2SC3130-TX
Q5705 XN5531-TX
Q5706 2SK508-T2B
Q5707 2SK508-T2B
Q5708 2SC3130-TX
Q5709 2SD1979-TX
Q5710 2SD1979-TX
Q5711 2SC3130-TX
Q5712 2SC3130-TX
Q5713 2SC3130-TX
Q5714 2SK508-T2B
Q5715 2SK508-T2B
Q5716 XN5531-TX
Q5717 XN5531-TX
Q5718 XN5531-TX
Q5719 XN5531-TX
Q5720 2SC3130-TX
IC5054 UPC1663G-E1
IC5055 NJM1496M-T1
IC5053 NJM082BM-T1
TP5016 VJR0646
TG5008 VJR0646
TP5019 VJR0646
TG5009 VJR0646
TP5020 VJR0646
L5700 VLQ0188K1R0N
L5701 VLQ0188K1R0N
L5702 VLQ0188K1R0N
L5703 VLQ0188J101K
L5704 VLQ0188J101K
L5705 VLQ0188KR39N
L5706 VLQ0188KR39N
VC5700 20P
VC5701 20P
C5024 50V2R2/EVV
C5025 50V2R2/EVV
C5026 16V47/EVV
C5027 16V47/EVV
SIG+ GAIN GAIN SIG- BIAS OUT+ NC VEE NC OUT- NC CA- NC CA+
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

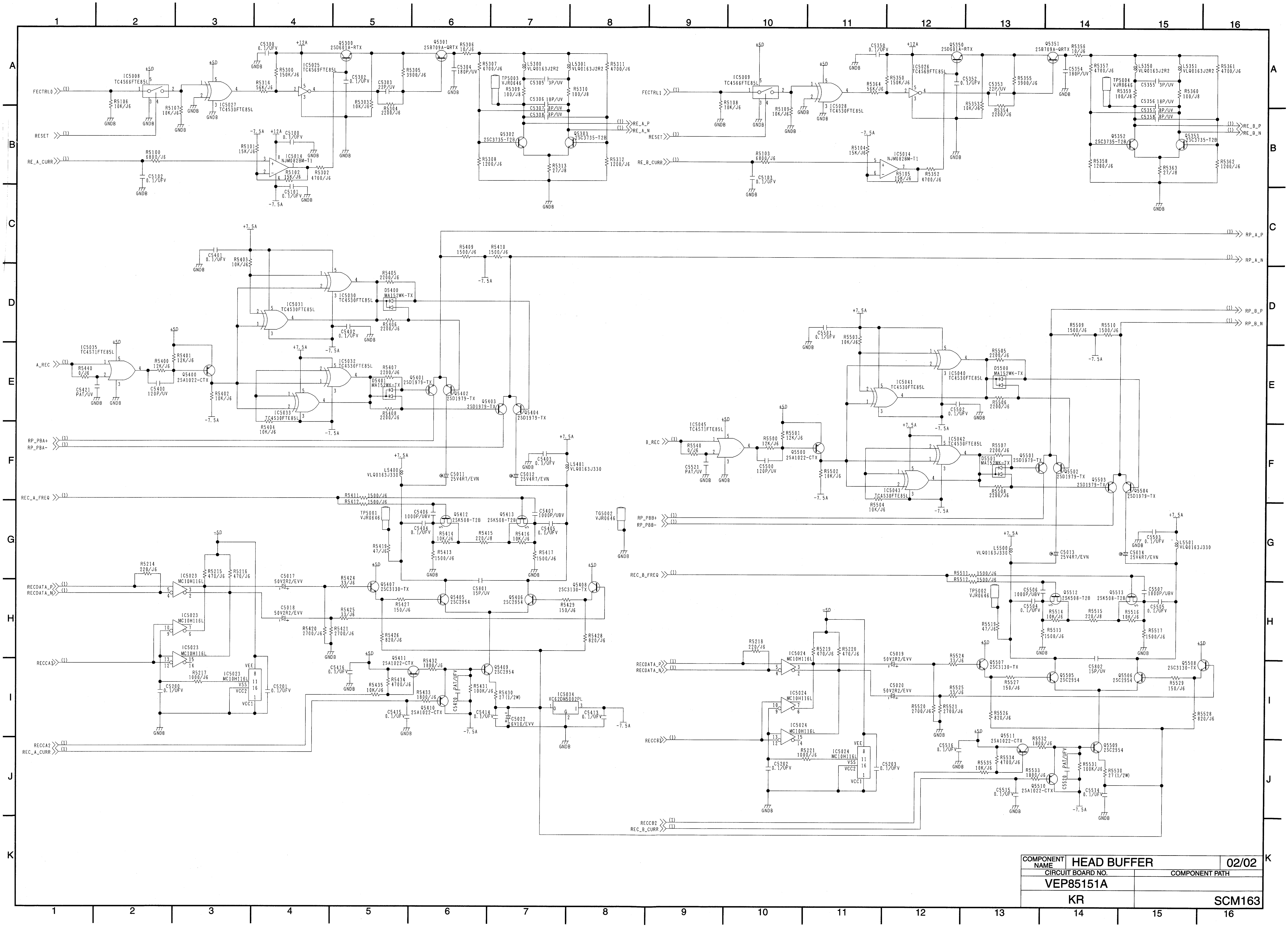
COMPONENT NAME	H4(RF AMP)	04/05
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85049A		
KR5332(4/5)		SCM160


P5001
VJP3454B096
1A GND (GNDA)
2A +12V
3A -12V
4A +7.5V
5A -7.5V
6A GND (GNDA)
7A
8A EE_DATA_P
9A EE_CLK_P
10A FECTRL0
11A RECCTRL_A
12A A_REC
13A GND (GNDA)
14A GND (GNDA)
15A GND (GNDA)
16A GND (GNDA)
17A
18A
19A RP_HSW
20A REC_ENV
21A GND (GNDB)
22A GND (GNDB)
23A RF_CLK
24A RF_HALD_H
25A GND (GNDB)
26A PB_OUT_P
27A GND (GNDB)
28A RP_OUT_P
29A GND (GNDB)
30A +5V
31A -5V
32A GND (GNDB)
(1, 2)
(1)
(2)
(3)
(4)
(3, 4)
P5001
VJP3454B096
1B GND (GNDA)
2B +12V
3B -12V
4B +7.5V
5B -7.5V
6B GND (GNDA)
7B RE_A_CURR
8B EE_DATA_N
9B EE_CLK_N
10B FECTRL1
11B RECCTRL_B
12B B_REC
13B RESET
14B RECDATA_P
15B REC_A_CURR
16B REC_A_FREQ
17B RP_A
18B PB_A
19B PB_HSW
20B PB_ENV
21B GND (GNDB)
22B GND (GNDB)
23B RF_DAT
24B GND (GNDB)
25B PB_PRE_P
26B PB_OUT_N
27B RP_PRE_P
28B RP_OUT_N
29B GND (GNDB)
30B +5V
31B -5V
32B GND (GNDB)
P5001
VJP3454B096
1C GND (GNDA)
2C +12V
3C -12V
4C +7.5V
5C -7.5V
6C GND (GNDA)
7C RE_B_CURR
8C GND (GNDA)
9C GND (GNDA)
10C RECI
11C
12C RECA
13C REC_TESTMOD
14C RECDATA_N
15C REC_B_CURR
16C REC_B_FREQ
17C RP_B
18C PB_B
19C RE_HSW
20C PBH
21C GND (GNDB)
22C GND (GNDB)
23C GND (GNDB)
24C GND (GNDB)
25C PB_PRE_N
26C GND (GNDB)
27C RP_PRE_N
28C GND (GNDB)
29C GND (GNDB)
30C +5V
31C -5V
32C GND (GNDB)
GNDA
GNDB
P5004
VJP1230T
RP_PRE_P 1
RP_PRE_N 2
GND (GNDB) 3
GNDB
RP_PRE_1P (4)
RP_PRE_1N (4)
R5913 0/J6
R5914 0/J6
P5005
VJP1230G
PB_PRE_P 1
PB_PRE_N 2
GND (GNDB) 3
GNDB
PB_PRE_1P (3)
PB_PRE_1N (3)
R5713 0/J6
R5714 0/J6
GNDA
GNDB

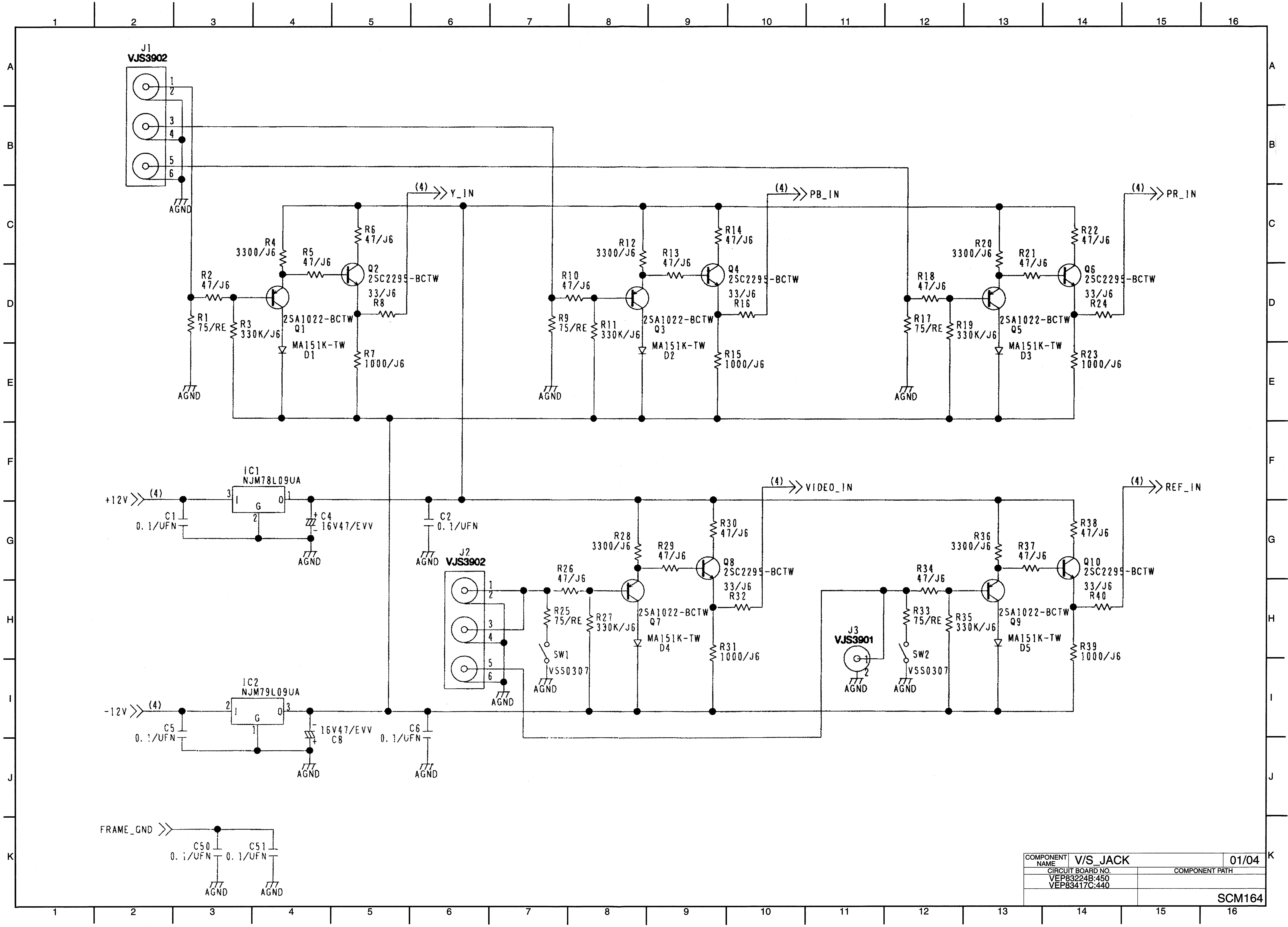
COMPONENT NAME	H4(RF AMP)	05/05
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP85049A		
KR5332(5/5)		SCM161


IC5050
UPC5102GS030
IC5060
UPC5102GS030
Q5600
XN5531-TX
Q5601
XN5531-TX
Q5700
XN5531-TX
Q5701
XN5531-TX
PB_A_P
PB_A_N
PB_B_P
PB_B_N
PB_B
PB_A
PB_PRE_2P
PB_PRE_2N
RP_PBA
RP_PBB
RECA
RP_B
RP_A
RP_PRE_2P
RP_PRE_2N
+5A
-5A
GNDA
GNDB
A_REC
B_REC
+5D
-5D
IC5003
MC74HC04AF-R
Q5200
2SA1022-CTX
Q5201
2SA1022-CTX
RECCA2
RECCA3
RECCB2
RECCB3
FL5001
FL5002
FL5003
FL5004
FL5005
VLF1016A470T
+12V
+5V
-5V
+7.5V
-7.5V
+12A
+5D
-5D
+7.5A
+5A
-7.5A
-5A
IC5010
XC62AP5002PL
IC5011
XC62DN5002PL
P5001
VJS3375B060
RE_A_CURR
FECTRL0
A_REC
RECA
RESET
RECDATA_P
REC_A_CURR
REC_A_FREQ
RP_A
PB_A
RE_B_CURR
FECTRL1
B_REC
RECDATA_N
REC_B_CURR
REC_B_FREQ
RP_B
PB_B
P5002
VJS3900C013
P5003
VJS3900C010
RP_A_N
RP_A_P
RP_B_N
RP_B_P
RE_A_N
RE_A_P
RE_B_N
RE_B_P
PB_A_N
PB_A_P
PB_B_N
PB_B_P
TG5001
VJR0646
C5060
0.1/UFV

COMPONENT NAME	HEAD BUFFER	01/02
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85151A		
KR		SCM162


FECTRL0
RESET
RE_A_CURR
IC5008 TC4S66FTE85L
IC5027 TC4S30FTE85L
IC5025 TC4S69FTE85L
IC5014 NJM082BM-T1
Q5300 2SD601A-RTX
Q5301 2SB709A-QRTX
TP5003 VJR0646
L5300 VLQ0163J2R2
L5301 VLQ0163J2R2
Q5302 2SC3735-T2B
Q5303 2SC3735-T2B
RE_A_P
RE_A_N
FECTRL1
IC5009 TC4S66FTE85L
IC5028 TC4S30FTE85L
IC5026 TC4S69FTE85L
Q5350 2SD601A-RTX
Q5351 2SB709A-QRTX
TP5004 VJR0646
L5350 VLQ0163J2R2
L5351 VLQ0163J2R2
Q5352 2SC3735-T2B
Q5353 2SC3735-T2B
RE_B_P
RE_B_N
RE_B_CURR
RP_A_P
RP_A_N
RP_B_P
RP_B_N
A_REC
IC5035 TC4S71FTE85L
Q5400 2SA1022-CTX
IC5030 TC4S30FTE85L
IC5031 TC4S30FTE85L
IC5032 TC4S30FTE85L
IC5033 TC4S30FTE85L
D5400 MA152WK-TX
D5401 MA152WK-TX
Q5401 2SD1979-TX
Q5402 2SD1979-TX
Q5403 2SD1979-TX
Q5404 2SD1979-TX
RP_PBA+
RP_PBA-
L5400 VLQ0163J330
L5401 VLQ0163J330
REC_A_FREQ
TP5001 VJR0646
TG5002 VJR0646
Q5412 2SK508-T2B
Q5413 2SK508-T2B
RECDATA_P
RECDATA_N
IC5023 MC10H116L
Q5407 2SC3130-TX
Q5408 2SC3130-TX
Q5405 2SC2954
Q5406 2SC2954
RECCA1
Q5411 2SA1022-CTX
Q5409 2SC2954
Q5410 2SA1022-CTX
IC5034 XC62DN5002PL
RECCA2
REC_A_CURR
B_REC
IC5045 TC4S71FTE85L
Q5500 2SA1022-CTX
IC5040 TC4S30FTE85L
IC5041 TC4S30FTE85L
IC5042 TC4S30FTE85L
IC5043 TC4S30FTE85L
D5500 MA152WK-TX
D5501 MA152WK-TX
Q5501 2SD1979-TX
Q5502 2SD1979-TX
Q5503 2SD1979-TX
Q5504 2SD1979-TX
RP_PBB+
RP_PBB-
L5500 VLQ0163J330
L5501 VLQ0163J330
REC_B_FREQ
TP5002 VJR0646
Q5512 2SK508-T2B
Q5513 2SK508-T2B
IC5024 MC10H116L
Q5507 2SC3130-TX
Q5508 2SC3130-TX
Q5505 2SC2954
Q5506 2SC2954
RECCB1
Q5511 2SA1022-CTX
Q5509 2SC2954
Q5510 2SA1022-CTX
RECCB2
REC_B_CURR
GNDB
+12A
-7.5A
+7.5A
+5D

COMPONENT NAME	HEAD BUFFER	02/02
CIRCUIT BOARD NO.		COMPONENT PATH
VEP85151A		
KR		SCM163

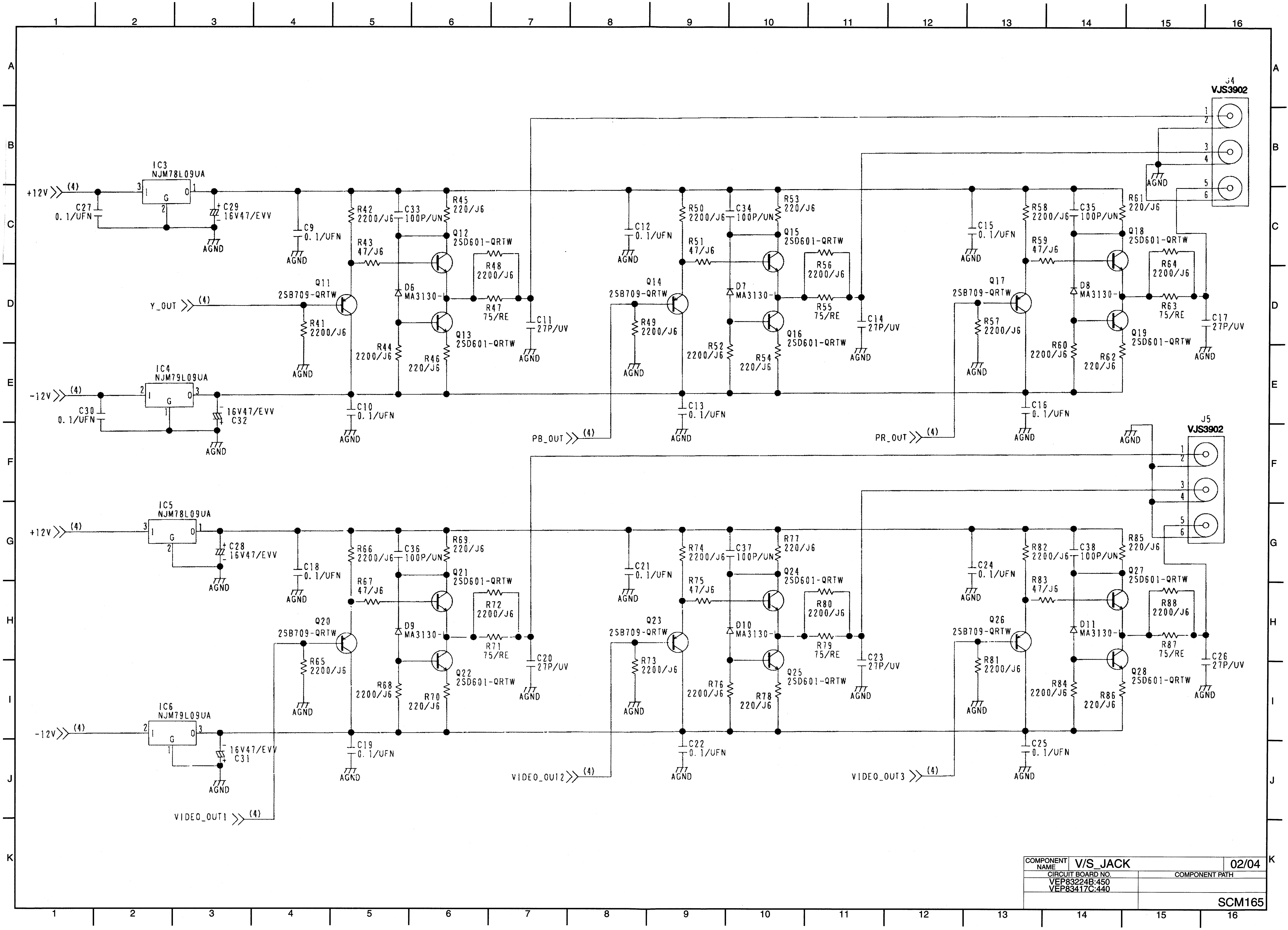

J1
VJS3902
J2
VJS3902
J3
VJS3901
(4) Y_IN
(4) PB_IN
(4) PR_IN
(4) VIDEO_IN
(4) REF_IN
+12V (4)
-12V (4)
FRAME_GND
IC1
NJM78L09UA
IC2
NJM79L09UA
C1 0.1/UFN
C2 0.1/UFN
C4 16V47/EVV
C5 0.1/UFN
C6 0.1/UFN
C8 16V47/EVV
C50 0.1/UFN
C51 0.1/UFN
R1 75/RE
R2 47/J6
R3 330K/J6
R4 3300/J6
R5 47/J6
R6 47/J6
R7 1000/J6
R8 33/J6
R9 75/RE
R10 47/J6
R11 330K/J6
R12 3300/J6
R13 47/J6
R14 47/J6
R15 1000/J6
R16 33/J6
R17 75/RE
R18 47/J6
R19 330K/J6
R20 3300/J6
R21 47/J6
R22 47/J6
R23 1000/J6
R24 33/J6
R25 75/RE
R26 47/J6
R27 330K/J6
R28 3300/J6
R29 47/J6
R30 47/J6
R31 1000/J6
R32 33/J6
R33 75/RE
R34 47/J6
R35 330K/J6
R36 3300/J6
R37 47/J6
R38 47/J6
R39 1000/J6
R40 33/J6
Q1 2SA1022-BCTW
Q2 2SC2295-BCTW
Q3 2SA1022-BCTW
Q4 2SC2295-BCTW
Q5 2SA1022-BCTW
Q6 2SC2295-BCTW
Q7 2SA1022-BCTW
Q8 2SC2295-BCTW
Q9 2SA1022-BCTW
Q10 2SC2295-BCTW
D1 MA151K-TW
D2 MA151K-TW
D3 MA151K-TW
D4 MA151K-TW
D5 MA151K-TW
SW1 VSS0307
SW2 VSS0307
AGND
A B C D E F G H I J K
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

COMPONENT NAME V/S_JACK 01/04

CIRCUIT BOARD NO.
VEP83224B:450
VEP83417C:440

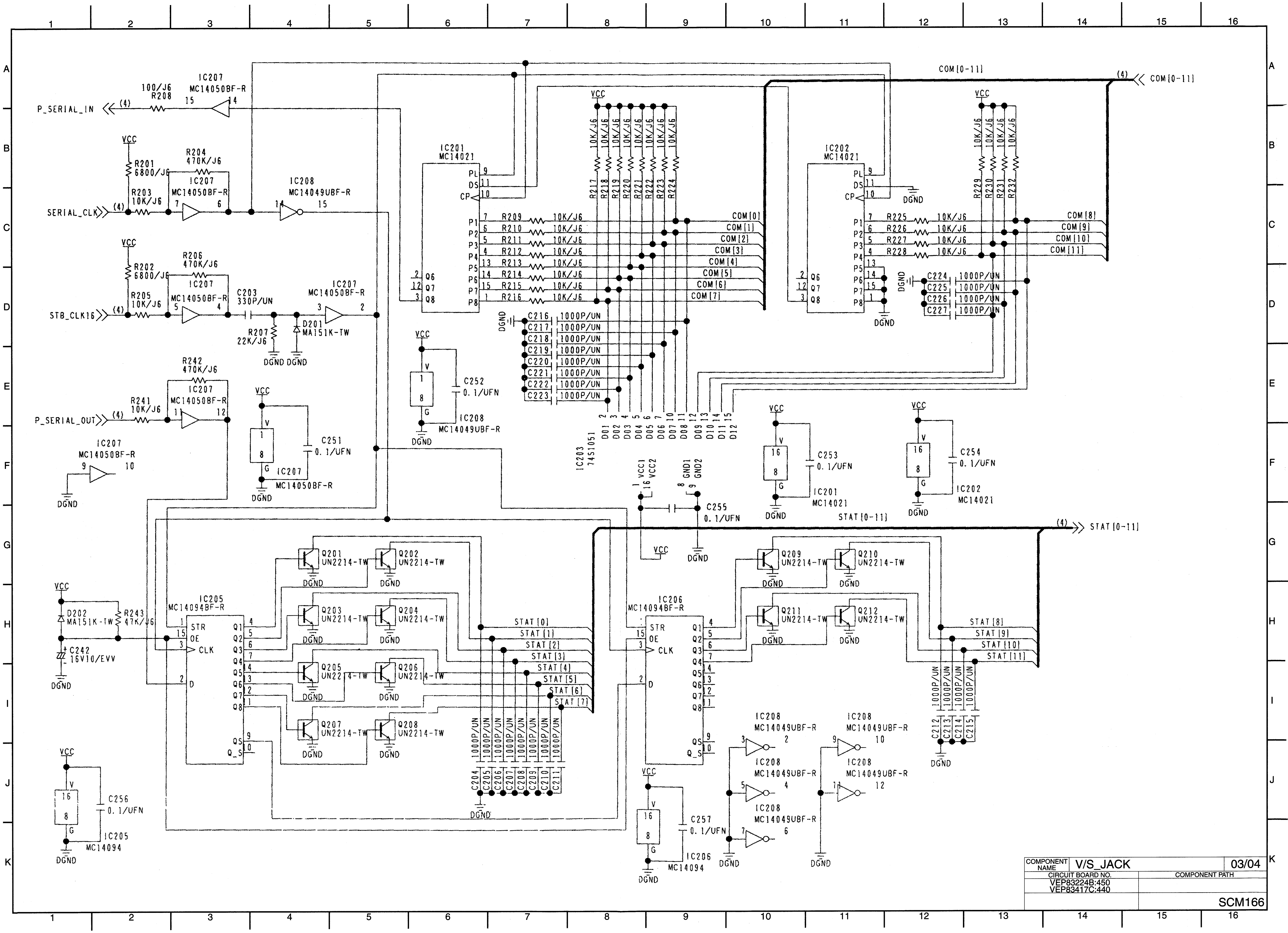
COMPONENT PATH

SCM164

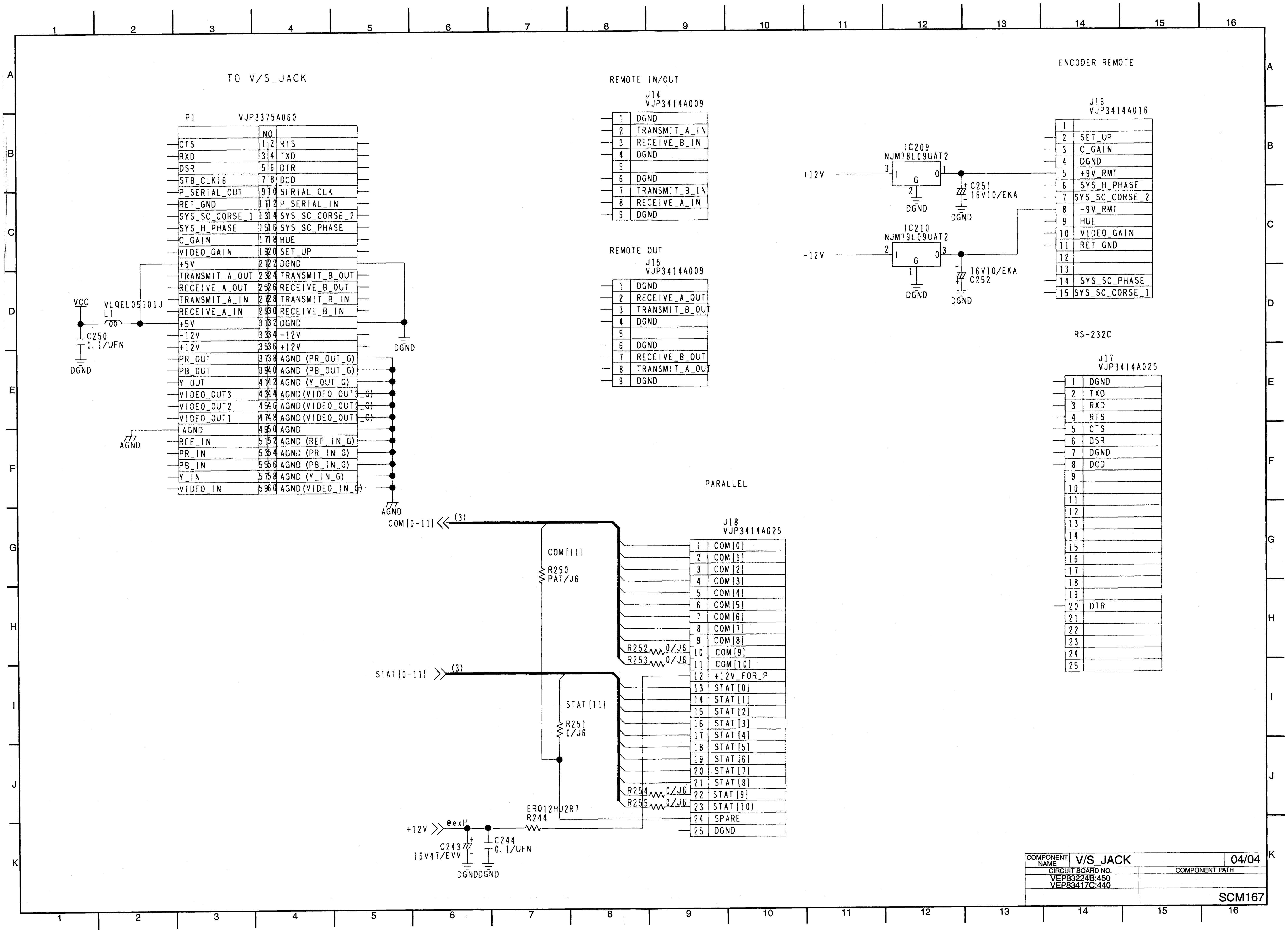


+12V (4)
IC3 NJM78L09UA
C27 0.1/UFN
C29 16V47/EVV
AGND
C9 0.1/UFN
R42 2200/J6
R43 47/J6
C33 100P/UN
R45 220/J6
Q12 2SD601-QRTW
Q11 2SB709-QRTW
D6 MA3130
R48 2200/J6
R47 75/RE
C11 27P/UV
Y_OUT (4)
R41 2200/J6
Q13 2SD601-QRTW
R44 2200/J6
R46 220/J6
-12V (4)
IC4 NJM79L09UA
C30 0.1/UFN
C32 16V47/EVV
C10 0.1/UFN
C12 0.1/UFN
R50 2200/J6
R51 47/J6
C34 100P/UN
R53 220/J6
Q15 2SD601-QRTW
Q14 2SB709-QRTW
D7 MA3130
R56 2200/J6
R55 75/RE
C14 27P/UV
R49 2200/J6
R52 2200/J6
R54 220/J6
Q16 2SD601-QRTW
C13 0.1/UFN
PB_OUT (4)
C15 0.1/UFN
R58 2200/J6
R59 47/J6
C35 100P/UN
R61 220/J6
Q18 2SD601-QRTW
Q17 2SB709-QRTW
D8 MA3130
R64 2200/J6
R63 75/RE
C17 27P/UV
R57 2200/J6
R60 2200/J6
R62 220/J6
Q19 2SD601-QRTW
C16 0.1/UFN
PR_OUT (4)
J4 VJS3902
J5 VJS3902
+12V (4)
IC5 NJM78L09UA
C28 16V47/EVV
C18 0.1/UFN
R66 2200/J6
R67 47/J6
C36 100P/UN
R69 220/J6
Q21 2SD601-QRTW
Q20 2SB709-QRTW
D9 MA3130
R72 2200/J6
R71 75/RE
C20 27P/UV
R65 2200/J6
R68 2200/J6
R70 220/J6
Q22 2SD601-QRTW
-12V (4)
IC6 NJM79L09UA
C31 16V47/EVV
C19 0.1/UFN
VIDEO_OUT1 (4)
C21 0.1/UFN
R74 2200/J6
R75 47/J6
C37 100P/UN
R77 220/J6
Q24 2SD601-QRTW
Q23 2SB709-QRTW
D10 MA3130
R80 2200/J6
R79 75/RE
C23 27P/UV
R73 2200/J6
R76 2200/J6
R78 220/J6
Q25 2SD601-QRTW
C22 0.1/UFN
VIDEO_OUT2 (4)
C24 0.1/UFN
R82 2200/J6
R83 47/J6
C38 100P/UN
R85 220/J6
Q27 2SD601-QRTW
Q26 2SB709-QRTW
D11 MA3130
R88 2200/J6
R87 75/RE
C26 27P/UV
R81 2200/J6
R84 2200/J6
R86 220/J6
Q28 2SD601-QRTW
C25 0.1/UFN
VIDEO_OUT3 (4)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

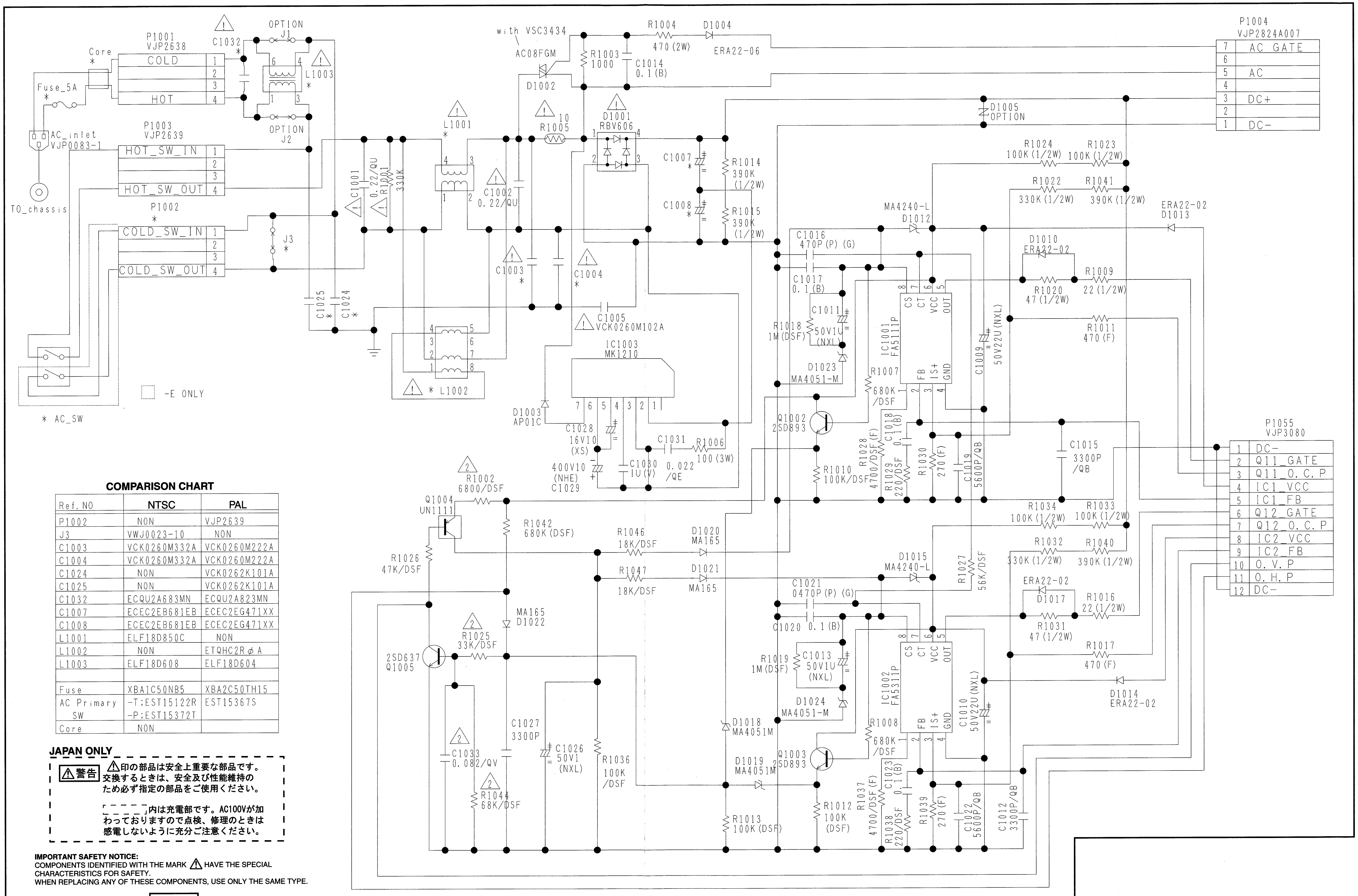
COMPONENT NAME	V/S_JACK	02/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP83224B:450 VEP83417C:440		SCM165


P_SERIAL_IN
100/J6
R208
IC207
MC14050BF-R
15
14
(4)
VCC
R201
6800/J6
R204
470K/J6
IC207
MC14050BF-R
R203
10K/J6
SERIAL_CLK
7
6
IC208
MC14049UBF-R
14
15
VCC
R202
6800/J6
R206
470K/J6
IC207
MC14050BF-R
R205
10K/J6
STB_CLK16
5
4
C203
330P/UN
IC207
MC14050BF-R
3
2
R207
22K/J6
D201
MA151K-TW
DGND
R242
470K/J6
IC207
MC14050BF-R
R241
10K/J6
P_SERIAL_OUT
11
12
IC207
MC14050BF-R
9
10
DGND
VCC
C251
0.1/UFN
IC207
MC14050BF-R
VCC
C252
0.1/UFN
IC208
MC14049UBF-R
IC201
MC14021
PL
DS
CP
P1
P2
P3
P4
P5
P6
P7
P8
Q6
Q7
Q8
R209
R210
R211
R212
R213
R214
R215
R216
10K/J6
COM[0]
COM[1]
COM[2]
COM[3]
COM[4]
COM[5]
COM[6]
COM[7]
R217
R218
R219
R220
R221
R222
R223
R224
C216
C217
C218
C219
C220
C221
C222
C223
1000P/UN
IC203
74S1051
D01
D02
D03
D04
D05
D06
D07
D08
D09
D10
D11
D12
VCC1
VCC2
GND1
GND2
C255
0.1/UFN
COM[0-11]
IC202
MC14021
R225
R226
R227
R228
COM[8]
COM[9]
COM[10]
COM[11]
R229
R230
R231
R232
C224
C225
C226
C227
VCC
C253
0.1/UFN
IC201
MC14021
C254
0.1/UFN
IC202
MC14021
STAT[0-11]
VCC
D202
MA151K-TW
R243
47K/J6
C242
16V10/EVV
IC205
MC14094BF-R
STR
OE
CLK
D
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
QS
Q_S
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
UN2214-TW
STAT[0]
STAT[1]
STAT[2]
STAT[3]
STAT[4]
STAT[5]
STAT[6]
STAT[7]
C204
C205
C206
C207
C208
C209
C210
C211
1000P/UN
IC206
MC14094BF-R
Q209
Q210
Q211
Q212
STAT[8]
STAT[9]
STAT[10]
STAT[11]
C212
C213
C214
C215
IC208
MC14049UBF-R
VCC
C256
0.1/UFN
IC205
MC14094
VCC
C257
0.1/UFN
IC206
MC14094

COMPONENT NAME	V/S_JACK		03/04
CIRCUIT BOARD NO.		COMPONENT PATH	
VEP83224B:450 VEP83417C:440			
			SCM166


TO V/S_JACK
P1 VJP3375A060
NO
CTS 1 2 RTS
RXD 3 4 TXD
DSR 5 6 DTR
STB_CLK16 7 8 DCD
P_SERIAL_OUT 9 10 SERIAL_CLK
RET_GND 11 12 P_SERIAL_IN
SYS_SC_CORSE_1 13 14 SYS_SC_CORSE_2
SYS_H_PHASE 15 16 SYS_SC_PHASE
C_GAIN 17 18 HUE
VIDEO_GAIN 19 20 SET_UP
+5V 21 22 DGND
TRANSMIT_A_OUT 23 24 TRANSMIT_B_OUT
RECEIVE_A_OUT 25 26 RECEIVE_B_OUT
TRANSMIT_A_IN 27 28 TRANSMIT_B_IN
RECEIVE_A_IN 29 30 RECEIVE_B_IN
+5V 31 32 DGND
-12V 33 34 -12V
+12V 35 36 +12V
PR_OUT 37 38 AGND (PR_OUT_G)
PB_OUT 39 40 AGND (PB_OUT_G)
Y_OUT 41 42 AGND (Y_OUT_G)
VIDEO_OUT3 43 44 AGND(VIDEO_OUT3_G)
VIDEO_OUT2 45 46 AGND(VIDEO_OUT2_G)
VIDEO_OUT1 47 48 AGND(VIDEO_OUT1_G)
AGND 49 50 AGND
REF_IN 51 52 AGND (REF_IN_G)
PR_IN 53 54 AGND (PR_IN_G)
PB_IN 55 56 AGND (PB_IN_G)
Y_IN 57 58 AGND (Y_IN_G)
VIDEO_IN 59 60 AGND(VIDEO_IN_G)
VCC
VLQEL05101J
L1
C250
0.1/UFN
DGND
AGND
DGND
AGND
REMOTE IN/OUT
J14
VJP3414A009
1 DGND
2 TRANSMIT_A_IN
3 RECEIVE_B_IN
4 DGND
5
6 DGND
7 TRANSMIT_B_IN
8 RECEIVE_A_IN
9 DGND
REMOTE OUT
J15
VJP3414A009
1 DGND
2 RECEIVE_A_OUT
3 TRANSMIT_B_OUT
4 DGND
5
6 DGND
7 RECEIVE_B_OUT
8 TRANSMIT_A_OUT
9 DGND
+12V
IC209
NJM78L09UAT2
I G O
DGND
C251
16V10/EKA
DGND
-12V
IC210
NJM79L09UAT2
16V10/EKA
C252
DGND
DGND
ENCODER REMOTE
J16
VJP3414A016
1
2 SET_UP
3 C_GAIN
4 DGND
5 +9V_RMT
6 SYS_H_PHASE
7 SYS_SC_CORSE_2
8 -9V_RMT
9 HUE
10 VIDEO_GAIN
11 RET_GND
12
13
14 SYS_SC_PHASE
15 SYS_SC_CORSE_1
RS-232C
J17
VJP3414A025
1 DGND
2 TXD
3 RXD
4 RTS
5 CTS
6 DSR
7 DGND
8 DCD
9
10
11
12
13
14
15
16
17
18
19
20 DTR
21
22
23
24
25
PARALLEL
COM[0-11] (3)
COM[11]
R250
PAT/J6
STAT[0-11] (3)
STAT[11]
R251
0/J6
R252 0/J6
R253 0/J6
R254 0/J6
R255 0/J6
J18
VJP3414A025
1 COM[0]
2 COM[1]
3 COM[2]
4 COM[3]
5 COM[4]
6 COM[5]
7 COM[6]
8 COM[7]
9 COM[8]
10 COM[9]
11 COM[10]
12 +12V_FOR_P
13 STAT[0]
14 STAT[1]
15 STAT[2]
16 STAT[3]
17 STAT[4]
18 STAT[5]
19 STAT[6]
20 STAT[7]
21 STAT[8]
22 STAT[9]
23 STAT[10]
24 SPARE
25 DGND
ERQ12HJ2R7
R244
+12V @exP
C243
16V47/EVV
C244
0.1/UFN
DGNDDGND

COMPONENT NAME	V/S_JACK		04/04
CIRCUIT BOARD NO. VEP83224B:450 VEP83417C:440		COMPONENT PATH	
			SCM167


P1001
VJP2638
COLD
HOT
Core
Fuse_5A
AC_inlet
VJP0083-1
TO_chassis
P1003
VJP2639
HOT_SW_IN
HOT_SW_OUT
P1002
COLD_SW_IN
COLD_SW_OUT
* AC_SW
-E ONLY
C1032
OPTION
J1
J2
L1003
J3
L1001
C1001
0.22/QU
R1001
330K
C1002
0.22/QU
C1003
C1004
C1005
VCK0260M102A
C1024
C1025
L1002
with VSC3434
AC08FGM
D1002
R1005
10
D1001
RBV606
R1003
1000
C1014
0.1(B)
R1004
470(2W)
D1004
ERA22-06
C1007
C1008
R1014
390K
(1/2W)
R1015
390K
(1/2W)
IC1003
MK1210
D1003
AP01C
C1028
16V10
(XS)
400V10
(NHE)
C1029
C1030
1U(V)
C1031
0.022
/QE
R1006
100(3W)
P1004
VJP2824A007
AC GATE
AC
DC+
DC-
D1005
OPTION
R1024
100K(1/2W)
R1023
100K(1/2W)
R1022
330K(1/2W)
R1041
390K(1/2W)
ERA22-02
D1013
MA4240-L
D1012
C1016
470P(P)(G)
C1017
0.1(B)
C1011
50V1U
(NXL)
R1018
1M(DSF)
D1023
MA4051-M
IC1001
FA5311P
CS CT VCC OUT
FB IS+ GND
D1010
ERA22-02
R1020
47(1/2W)
R1009
22(1/2W)
R1011
470(F)
C1009
50V22U(NXL)
R1007
680K
/DSF
Q1002
2SD893
R1028
4700/DSF(F)
C1018
0.1(B)
R1029
220/DSF
R1030
270(F)
C1019
5600P/QB
R1010
100K/DSF
C1015
3300P
/QB
P1055
VJP3080
DC-
Q11_GATE
Q11_O.C.P
IC1_VCC
IC1_FB
Q12_GATE
Q12_O.C.P
IC2_VCC
IC2_FB
O.V.P
O.H.P
DC-
R1034
100K(1/2W)
R1033
100K(1/2W)
R1032
330K(1/2W)
R1040
390K(1/2W)
D1015
MA4240-L
R1027
56K/DSF
R1002
6800/DSF
Q1004
UN1111
R1042
680K(DSF)
R1046
18K/DSF
D1020
MA165
R1047
18K/DSF
D1021
MA165
R1026
47K/DSF
MA165
D1022
2SD637
Q1005
R1025
33K/DSF
C1027
3300P
C1033
0.082/QV
R1044
68K/DSF
C1026
50V1
(NXL)
R1036
100K
/DSF
C1021
0470P(P)(G)
C1020
0.1(B)
ERA22-02
D1017
R1016
22(1/2W)
R1031
47(1/2W)
R1017
470(F)
R1019
1M(DSF)
C1013
50V1U
(NXL)
D1024
MA4051-M
IC1002
FA5311P
C1010
50V22U(NXL)
D1014
ERA22-02
D1018
MA4051M
D1019
MA4051M
Q1003
2SD893
R1008
680K
/DSF
R1012
100K
(DSF)
R1013
100K(DSF)
R1037
4700/DSF(F)
C1023
0.1(B)
R1038
220/DSF
R1039
270(F)
C1022
5600P/QB
C1012
3300P/QB
TDE2-10439

COMPARISON CHART

Ref.NO	NTSC	PAL
P1002	NON	VJP2639
J3	VWJ0023-10	NON
C1003	VCK0260M332A	VCK0260M222A
C1004	VCK0260M332A	VCK0260M222A
C1024	NON	VCK0262K101A
C1025	NON	VCK0262K101A
C1032	ECQU2A683MN	ECQU2A823MN
C1007	ECEC2EB681EB	ECEC2EG471XX
C1008	ECEC2EB681EB	ECEC2EG471XX
L1001	ELF18D850C	NON
L1002	NON	ETQHC2Rφ A
L1003	ELF18D608	ELF18D604
Fuse	XBA1C50NB5	XBA2C50TH15
AC Primary SW	-T;EST15122R -P;EST15372T	EST15367S
Core	NON	

JAPAN ONLY

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IMPORTANT SAFETY NOTICE:
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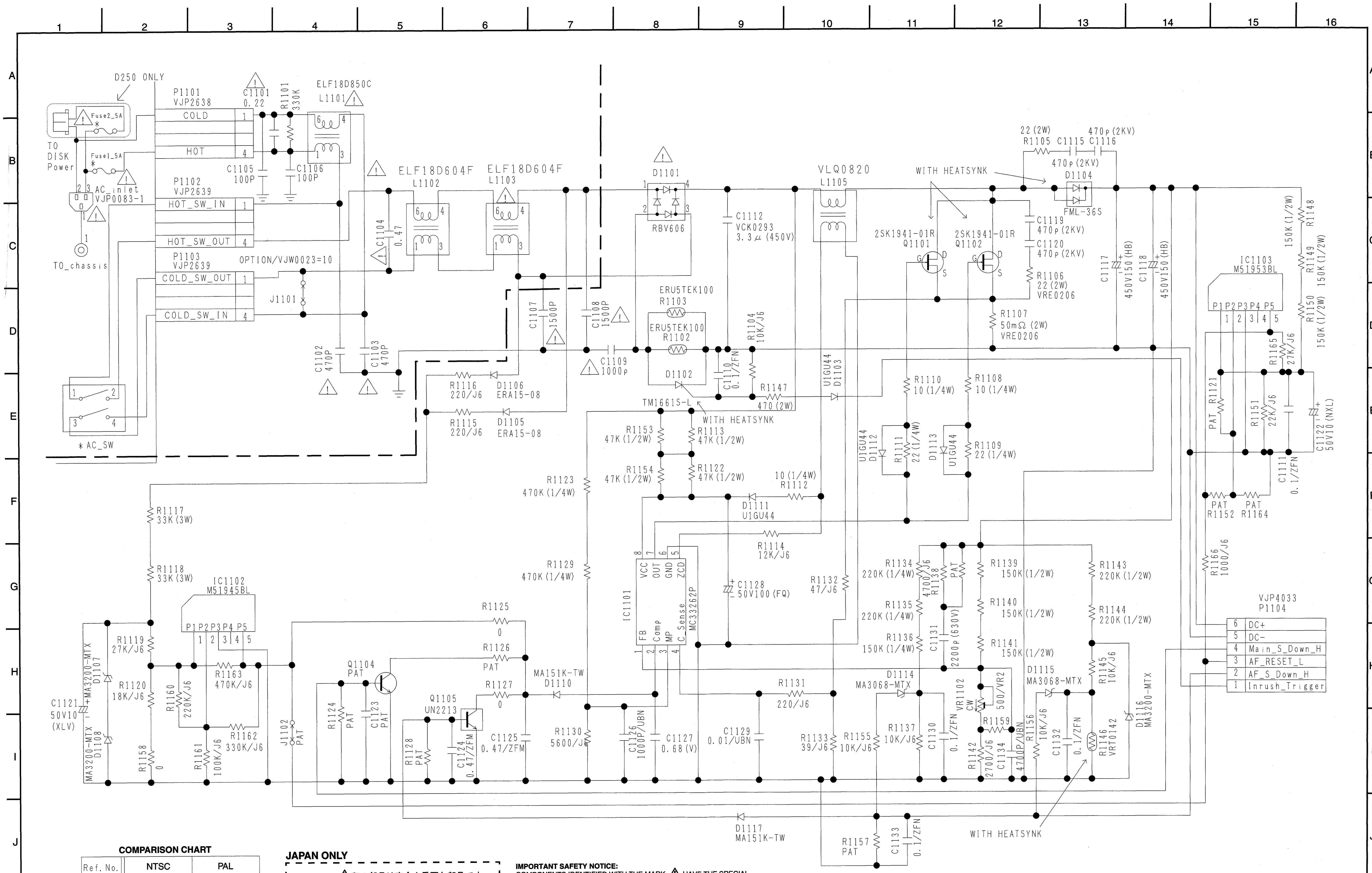
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE ┌ ─ ┐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PROMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1(NTSC)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81074A		
KR1A47(1/1)	SCM168	


D250 ONLY
Fuse2_5A
Fuse1_5A
TO DISK Power
AC_inlet VJP0083-1
TO_chassis
* AC_SW
P1101 VJP2638
COLD
HOT
P1102 VJP2639
HOT_SW_IN
HOT_SW_OUT
P1103 VJP2639
COLD_SW_OUT
COLD_SW_IN
OPTION/VJW0023=10
J1101
C1101 0.22
R1101 330K
ELF18D850C L1101
C1105 100P
C1106 100P
ELF18D604F L1102
ELF18D604F L1103
C1104 0.47
C1102 470P
C1103 470P
C1107 1500P
C1108 1500P
C1109 1000p
D1101 RBV606
ERU5TEK100 R1103
ERU5TEK100 R1102
D1102 TM1661S-L
WITH HEATSYNK
C1110 0.1/ZFN
R1104 10K/J6
R1147 470 (2W)
C1112 VCK0293 3.3μ (450V)
VLQ0820 L1105
U1GU44 D1103
R1116 220/J6
D1106 ERA15-08
R1115 220/J6
D1105 ERA15-08
R1153 47K (1/2W)
R1113 47K (1/2W)
R1154 47K (1/2W)
R1122 47K (1/2W)
10 (1/4W) R1112
D1111 U1GU44
R1123 470K (1/4W)
R1114 12K/J6
R1129 470K (1/4W)
IC1101 MC33262P
VCC OUT GND ZCD
FB Comp MP C Sense
C1128 50V100 (FQ)
R1132 47/J6
22 (2W) R1105
C1115 470p (2KV)
C1116 470p (2KV)
WITH HEATSYNK
D1104 FML-36S
2SK1941-01R Q1101
2SK1941-01R Q1102
C1119 470p (2KV)
C1120 470p (2KV)
R1106 22 (2W) VRE0206
R1107 50mΩ (2W) VRE0206
C1117 450V150 (HB)
C1118 450V150 (HB)
R1110 10 (1/4W)
R1108 10 (1/4W)
U1GU44 D1112
R1111 22 (1/4W)
D1113 U1GU44
R1109 22 (1/4W)
R1148 150K (1/2W)
R1149 150K (1/2W)
R1150 150K (1/2W)
IC1103 M51953BL
R1165 27K/J6
R1121 PAT
R1151 22K/J6
C1122 50V10 (NXL)
C1111 0.1/ZFN
PAT R1152
PAT R1164
R1166 1000/J6
VJP4033 P1104
DC+
DC-
Main_S_Down_H
AF_RESET_L
AF_S_Down_H
Inrush_Trigger
R1134 220K (1/4W)
R1138 4700/J6
PAT
R1135 220K (1/4W)
R1136 150K (1/4W)
C1131 2200p (630V)
R1139 150K (1/2W)
R1140 150K (1/2W)
R1141 150K (1/2W)
R1143 220K (1/2W)
R1144 220K (1/2W)
R1145 10K/J6
D1114 MA3068-MTX
D1115 MA3068-MTX
VR1102 CW 500/VR2
R1159
R1137 10K/J6
C1130 0.1/ZFN
R1142 2700/J6
C1134 4700P/UBN
R1156 10K/J6
C1132 0.1/ZFN
R1146 VRT0142
D1116 MA3200-MTX
WITH HEATSYNK
R1131 220/J6
C1129 0.01/UBN
R1133 39/J6
R1155 10K/J6
R1130 5600/J6
C1126 1000P/UBN
C1127 0.68 (V)
R1157 PAT
C1133 0.1/ZFN
D1117 MA151K-TW
R1117 33K (3W)
R1118 33K (3W)
IC1102 M51945BL
R1119 27K/J6
D1107 MA3200-MTX
R1120 18K/J6
C1121 50V10 (XLV)
D1108 MA3200-MTX
R1158 0
R1160 220K/J6
R1163 470K/J6
R1161 100K/J6
R1162 330K/J6
J1102 PAT
R1125 0
R1126 PAT
Q1104 PAT
R1124 PAT
C1123 PAT
R1127 0
Q1105 UN2213
MA151K-TW D1110
R1128 PAT
C1124 0.47/ZFM
C1125 0.47/ZFM

COMPARISON CHART

Ref. No.	NTSC	PAL
Fuse1	XBA1C50NB5	XBA2C50TH15
Fuse2	XBA1C50NB5	XBA2C50TH15

JAPAN ONLY

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[-----]内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないように充分ご注意ください。

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CAUTION

THE [-----] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PROMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1(PAL)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81183A		
		SCM169

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┌┄┄┄┐内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないように充分ご注意ください。

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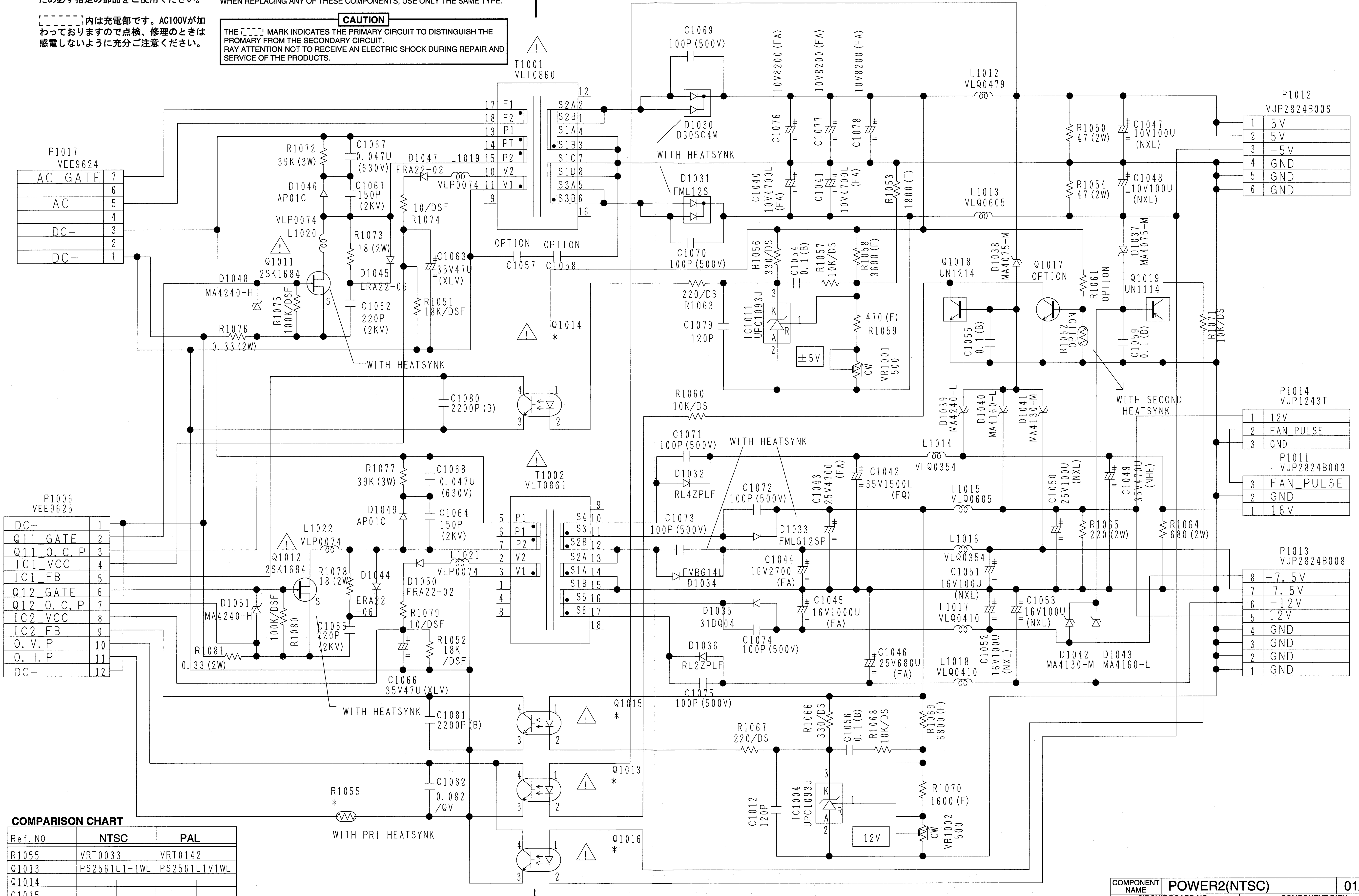
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE ┌┄┄┐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PROMARY FROM THE SECONDARY CIRCUIT.
RAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.


1
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12
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14
15
16
A
B
C
D
E
F
G
H
I
J
K
T1001
VLT0860
F1
F2
P1
PT
P2
V2
V1
S2A
S2B
S1A
S1B
S1C
S1D
S3A
S3B
P1017
VEE9624
AC_GATE
AC
DC+
DC-
R1072
39K(3W)
C1067
0.047U
(630V)
D1047
ERA22-02
L1019
VLP0074
D1046
AP01C
C1061
150P
(2KV)
10/DSF
R1074
VLP0074
L1020
R1073
18(2W)
C1063
35V47U
(XLV)
Q1011
2SK1684
D1045
ERA22-06
D1048
MA4240-H
R1075
100K/DSF
C1062
220P
(2KV)
R1051
18K/DSF
R1076
0.33(2W)
WITH HEATSYNK
OPTION
C1057
C1058
Q1014
*
C1080
2200P(B)
C1069
100P(500V)
D1030
D30SC4M
WITH HEATSYNK
D1031
FML12S
C1070
100P(500V)
10V8200(FA)
C1076
C1077
C1078
C1040
10V4700L
(FA)
C1041
10V4700L
(FA)
R1053
1800(F)
L1012
VLQ0479
L1013
VLQ0605
R1050
47(2W)
C1047
10V100U
(NXL)
R1054
47(2W)
C1048
10V100U
(NXL)
P1012
VJP2824B006
5V
5V
-5V
GND
GND
GND
R1056
330/DS
C1054
0.1(B)
R1057
10K/DS
R1058
3600(F)
220/DS
R1063
C1079
120P
IC1011
UPC1093J
K
A
R
470(F)
R1059
±5V
CW
VR1001
500
Q1018
UN1214
D1038
MA4075-M
Q1017
OPTION
R1061
OPTION
D1037
MA4075-M
Q1019
UN1114
C1055
0.1(B)
R1062
OPTION
C1059
0.1(B)
R1071
10K/DS
WITH SECOND HEATSYNK
R1060
10K/DS
D1039
MA4240-L
D1040
MA4160-L
D1041
MA4130-M
P1014
VJP1243T
12V
FAN_PULSE
GND
P1011
VJP2824B003
FAN_PULSE
GND
16V
C1071
100P(500V)
WITH HEATSYNK
D1032
RL4ZPLF
L1014
VLQ0354
C1042
35V1500L
(FQ)
C1043
25V4700
(FA)
C1050
25V100U
(NXL)
C1049
35V470U
(NHE)
C1072
100P(500V)
L1015
VLQ0605
C1073
100P(500V)
D1033
FMLG12SP
R1065
220(2W)
R1064
680(2W)
L1016
VLQ0354
C1044
16V2700
(FA)
C1051
16V100U
(NXL)
FMBG14L
D1034
P1013
VJP2824B008
-7.5V
7.5V
-12V
12V
GND
GND
GND
GND
C1045
16V1000U
(FA)
L1017
VLQ0410
C1053
16V100U
(NXL)
D1035
31DQ04
C1074
100P(500V)
D1036
RL2ZPLF
C1046
25V680U
(FA)
L1018
VLQ0410
C1052
16V100U
(NXL)
D1042
MA4130-M
D1043
MA4160-L
C1075
100P(500V)
T1002
VLT0861
S4
S3
S2B
S2A
S1A
S1B
S5
S6
R1077
39K(3W)
C1068
0.047U
(630V)
D1049
AP01C
C1064
150P
(2KV)
L1022
VLP0074
L1021
VLP0074
Q1012
2SK1684
R1078
18(2W)
D1044
ERA22-06
D1050
ERA22-02
D1051
MA4240-H
100K/DSF
R1080
C1065
220P
(2KV)
R1079
10/DSF
R1052
18K
/DSF
R1081
0.33(2W)
C1066
35V47U(XLV)
P1006
VEE9625
DC-
Q11_GATE
Q11_O.C.P
IC1_VCC
IC1_FB
Q12_GATE
Q12_O.C.P
IC2_VCC
IC2_FB
O.V.P
O.H.P
DC-
WITH HEATSYNK
C1081
2200P(B)
Q1015
*
R1067
220/DS
R1066
330/DS
C1056
0.1(B)
R1068
10K/DS
R1069
6800(F)
C1082
0.082
/QV
Q1013
*
R1055
*
WITH PRI HEATSYNK
C1012
120P
IC1004
UPC1093J
R1070
1600(F)
12V
VR1002
500
Q1016
*

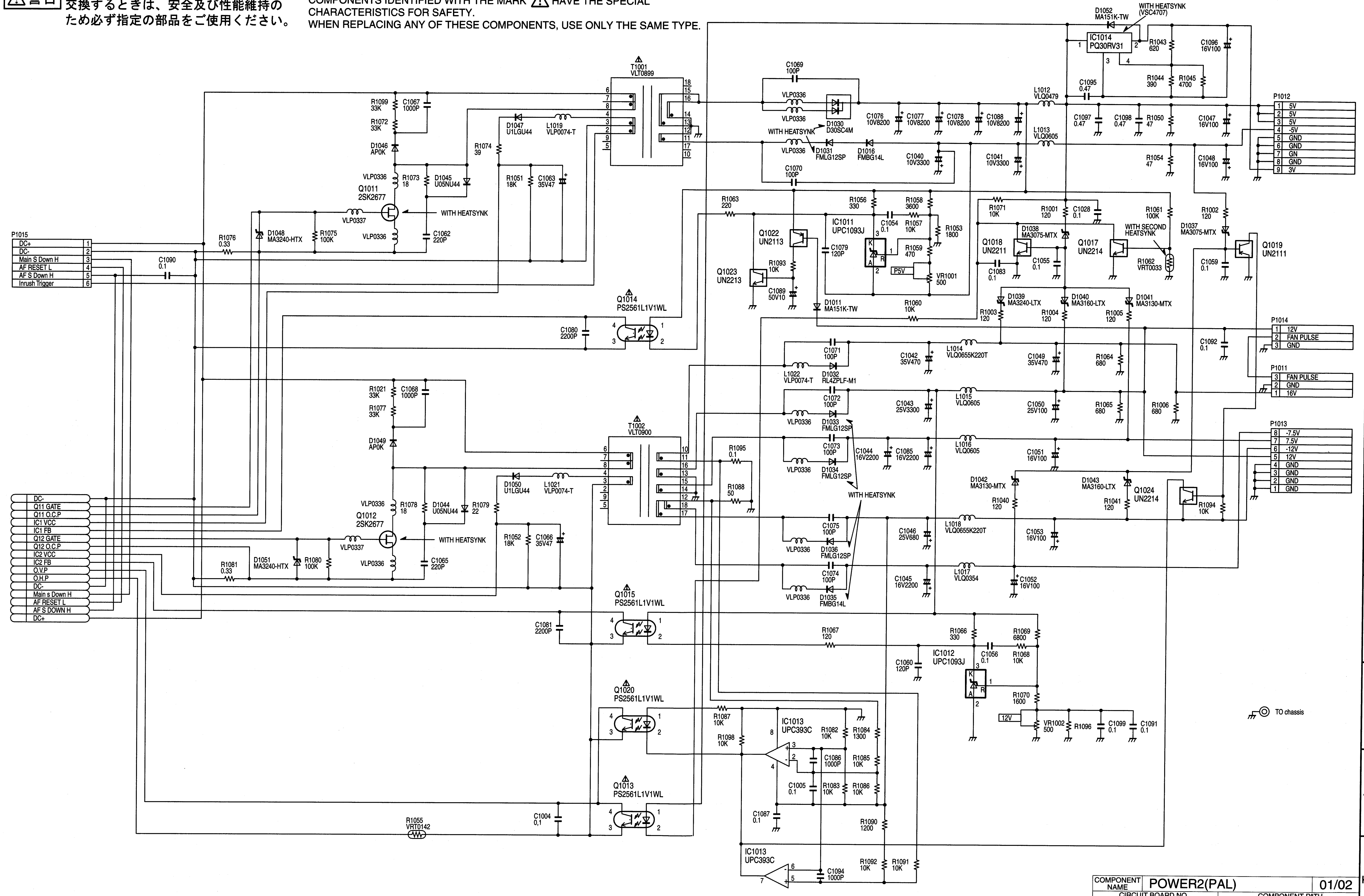
COMPARISON CHART

Ref.NO	NTSC	PAL
R1055	VRT0033	VRT0142
Q1013	PS2561L1-1WL	PS2561L1V1WL
Q1014	↓	↓
Q1015		
Q1016		

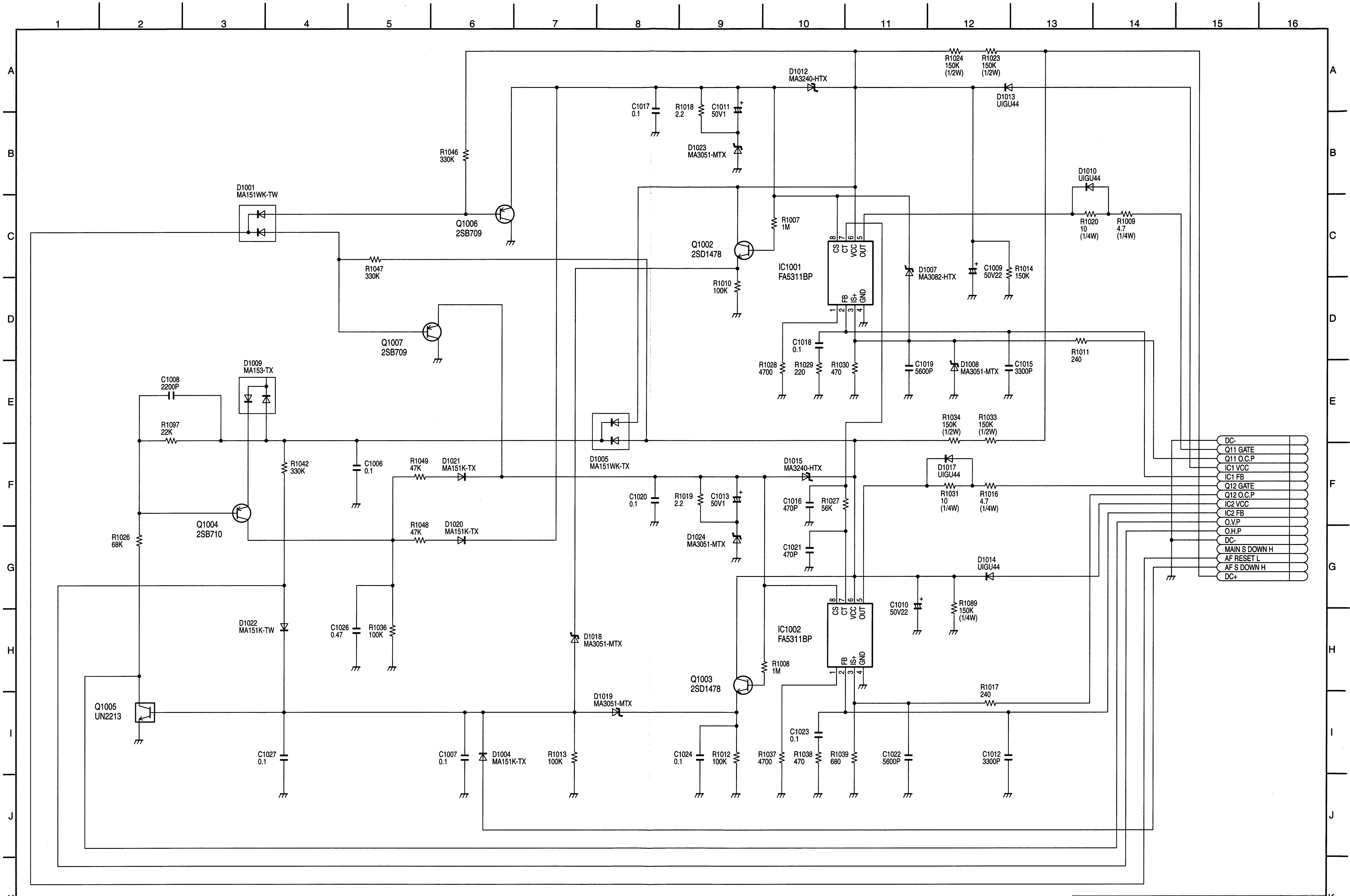
COMPONENT NAME	POWER2(NTSC)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP81075A		
KR1A48(1/1)	SCM170	

⚠警告 ⚠印の部品は安全上重要な部品です。
交換するときは、安全及び性能維持の
ため必ず指定の部品をご使用ください。

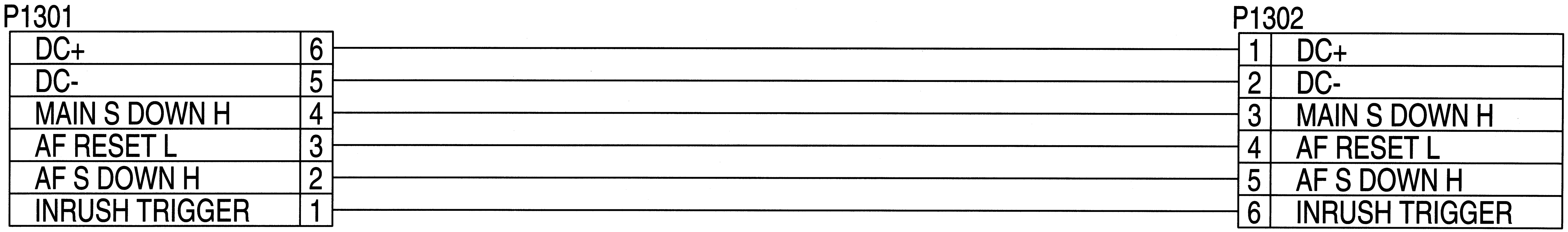
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL
CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


T1001
VLT0899
T1002
VLT0900
P1015
DC+
DC-
Main S Down H
AF RESET L
AF S Down H
Inrush Trigger
DC-
Q11 GATE
Q11 O.C.P
IC1 VCC
IC1 FB
Q12 GATE
Q12 O.C.P
IC2 VCC
IC2 FB
O.V.P
O.H.P
DC-
Main s Down H
AF RESET L
AF S DOWN H
DC+
Q1011
2SK2677
Q1012
2SK2677
WITH HEATSYNK
Q1014
PS2561L1V1WL
Q1015
PS2561L1V1WL
Q1020
PS2561L1V1WL
Q1013
PS2561L1V1WL
IC1014
PQ30RV31
WITH HEATSYNK
(VSC4707)
D1052
MA151K-TW
IC1011
UPC1093J
IC1012
UPC1093J
IC1013
UPC393C
Q1022
UN2113
Q1023
UN2213
Q1018
UN2211
Q1017
UN2214
Q1019
UN2111
Q1024
UN2214
WITH SECOND HEATSYNK
R1062
VRT0033
VR1001
500
VR1002
500
P5V
12V
D1030
D30SC4M
D1031
FMLG12SP
D1016
FMBG14L
D1032
RL4ZPLF-M1
D1033
FMLG12SP
D1034
FMLG12SP
D1036
FMLG12SP
D1035
FMBG14L
D1037
MA3075-MTX
D1038
MA3075-MTX
D1039
MA3240-LTX
D1040
MA3160-LTX
D1041
MA3130-MTX
D1042
MA3130-MTX
D1043
MA3160-LTX
D1011
MA151K-TW
D1046
AP0K
D1049
AP0K
D1045
U05NU44
D1044
U05NU44
D1047
U1LGU44
D1050
U1LGU44
D1048
MA3240-HTX
D1051
MA3240-HTX
L1012
VLQ0479
L1013
VLQ0605
L1014
VLQ0655K220T
L1015
VLQ0605
L1016
VLQ0605
L1017
VLQ0354
L1018
VLQ0655K220T
L1019
VLP0074-T
L1021
VLP0074-T
L1022
VLP0074-T
VLP0336
VLP0337
R1055
VRT0142
P1012
5V
5V
5V
-5V
GND
GND
GN
GND
3V
P1014
12V
FAN PULSE
GND
P1011
FAN PULSE
GND
16V
P1013
-7.5V
7.5V
-12V
12V
GND
GND
GND
GND
TO chassis

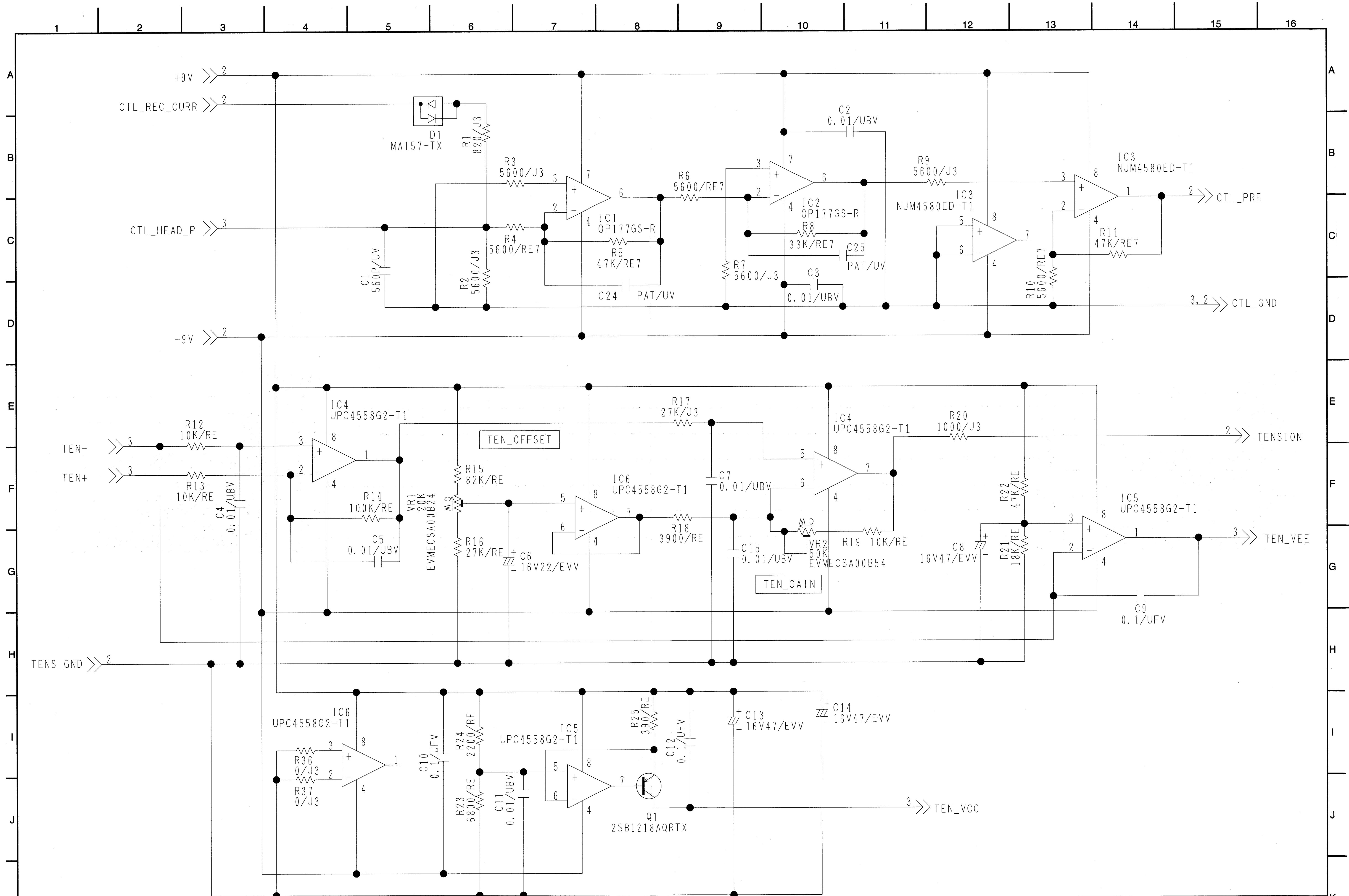
COMPONENT NAME	POWER2(PAL)	01/02
CIRCUIT BOARD NO.		COMPONENT PATH
VEP81184B		
		SCM171


D1012
MA3240-HTX
R1024
150K
(1/2W)
R1023
150K
(1/2W)
D1013
UIGU44
C1017
0.1
R1018
2.2
C1011
50V1
D1023
MA3051-MTX
R1046
330K
D1010
UIGU44
D1001
MA151WK-TW
Q1006
2SB709
R1020
10
(1/4W)
R1009
4.7
(1/4W)
R1007
1M
Q1002
2SD1478
IC1001
FA5311BP
CS
CT
VCC
OUT
FB
IS+
GND
D1007
MA3082-HTX
C1009
50V22
R1014
150K
R1047
330K
R1010
100K
Q1007
2SB709
C1018
0.1
R1028
4700
R1029
220
R1030
470
C1019
5600P
D1008
MA3051-MTX
C1015
3300P
R1011
240
D1009
MA153-TX
C1008
2200P
R1097
22K
R1034
150K
(1/2W)
R1033
150K
(1/2W)
D1005
MA151WK-TX
R1042
330K
C1006
0.1
R1049
47K
D1021
MA151K-TX
D1015
MA3240-HTX
D1017
UIGU44
R1031
10
(1/4W)
R1016
4.7
(1/4W)
C1020
0.1
R1019
2.2
C1013
50V1
C1016
470P
R1027
56K
Q1004
2SB710
R1048
47K
D1020
MA151K-TX
D1024
MA3051-MTX
C1021
470P
R1026
68K
D1014
UIGU44
DC-
Q11 GATE
Q11 O.C.P
IC1 VCC
IC1 FB
Q12 GATE
Q12 O.C.P
IC2 VCC
IC2 FB
O.V.P
O.H.P
DC-
MAIN S DOWN H
AF RESET L
AF S DOWN H
DC+
C1010
50V22
R1089
150K
(1/4W)
D1022
MA151K-TW
C1026
0.47
R1036
100K
IC1002
FA5311BP
D1018
MA3051-MTX
R1008
1M
Q1003
2SD1478
R1017
240
Q1005
UN2213
D1019
MA3051-MTX
C1023
0.1
C1027
0.1
C1007
0.1
D1004
MA151K-TX
R1013
100K
C1024
0.1
R1012
100K
R1037
4700
R1038
470
R1039
680
C1022
5600P
C1012
3300P
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K

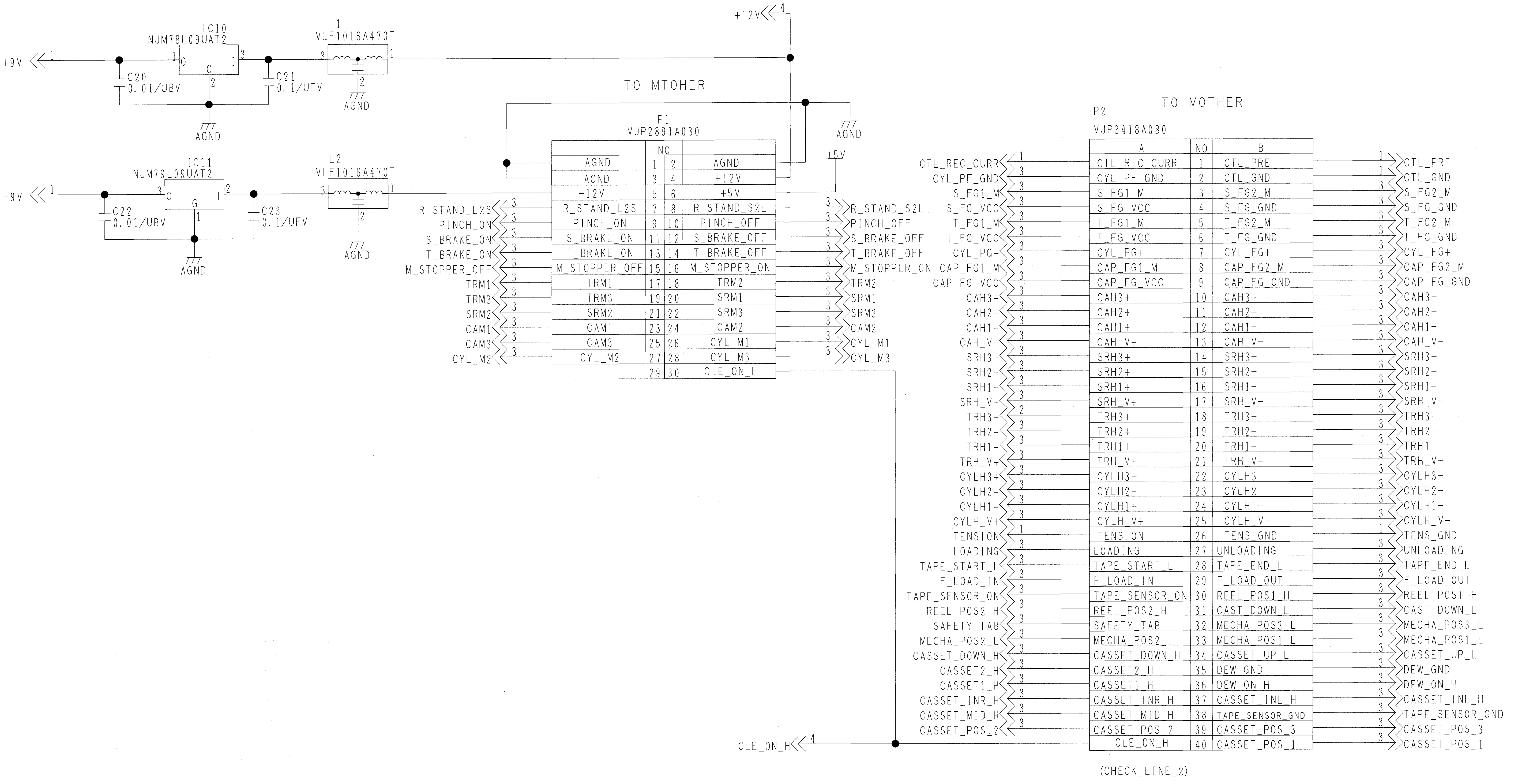
COMPONENT NAME	POWER2(PAL)	02/02
CIRCUIT BOARD NO.		COMPONENT PATH
VEP81184B		
		SCM172


P1301
DC+
6
DC-
5
MAIN S DOWN H
4
AF RESET L
3
AF S DOWN H
2
INRUSH TRIGGER
1
P1302
1
DC+
2
DC-
3
MAIN S DOWN H
4
AF RESET L
5
AF S DOWN H
6
INRUSH TRIGGER

COMPONENT NAME	POWER CONNECT(PAL only)	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A58A		
	SCM173	


+9V
CTL_REC_CURR
CTL_HEAD_P
-9V
D1
MA157-TX
R1
820/J3
R2
5600/J3
R3
5600/J3
R4
5600/RE7
R5
47K/RE7
C1
560P/UV
C24
PAT/UV
IC1
OP177GS-R
R6
5600/RE7
C2
0.01/UBV
IC2
OP177GS-R
R8
33K/RE7
C25
PAT/UV
R7
5600/J3
C3
0.01/UBV
R9
5600/J3
IC3
NJM4580ED-T1
IC3
NJM4580ED-T1
R10
5600/RE7
R11
47K/RE7
CTL_PRE
CTL_GND
TEN-
TEN+
R12
10K/RE
R13
10K/RE
C4
0.01/UBV
IC4
UPC4558G2-T1
R14
100K/RE
C5
0.01/UBV
VR1
20K
EVMECSA00B24
TEN_OFFSET
R15
82K/RE
R16
27K/RE
C6
16V22/EVV
IC6
UPC4558G2-T1
R17
27K/J3
C7
0.01/UBV
R18
3900/RE
C15
0.01/UBV
IC4
UPC4558G2-T1
VR2
50K
EVMECSA00B54
TEN_GAIN
R19 10K/RE
R20
1000/J3
TENSION
R22
47K/RE
R21
18K/RE
C8
16V47/EVV
IC5
UPC4558G2-T1
C9
0.1/UFV
TEN_VEE
TENS_GND
IC6
UPC4558G2-T1
R36
0/J3
R37
0/J3
C10
0.1/UFV
R24
2200/RE
R23
6800/RE
C11
0.01/UBV
IC5
UPC4558G2-T1
R25
390/RE
Q1
2SB1218AQRTX
C12
0.1/UFV
C13
16V47/EVV
C14
16V47/EVV
TEN_VCC

COMPONENT NAME	MECHA IF	01/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82216B		
KR2C31(1/4)	SCM174	


+9V
1
IC10
NJM78L09UAT2
1
O
G
I
3
2
C20
0.01/UBV
C21
0.1/UFV
AGND
L1
VLF1016A470T
3
1
2
AGND
+12V
4
-9V
1
IC11
NJM79L09UAT2
3
O
G
I
2
1
C22
0.01/UBV
C23
0.1/UFV
AGND
L2
VLF1016A470T
3
1
2
AGND
TO MTOHER
P1
VJP2891A030
AGND
+5V
TO MOTHER
P2
VJP3418A080
CLE_ON_H
4
(CHECK_LINE_2)

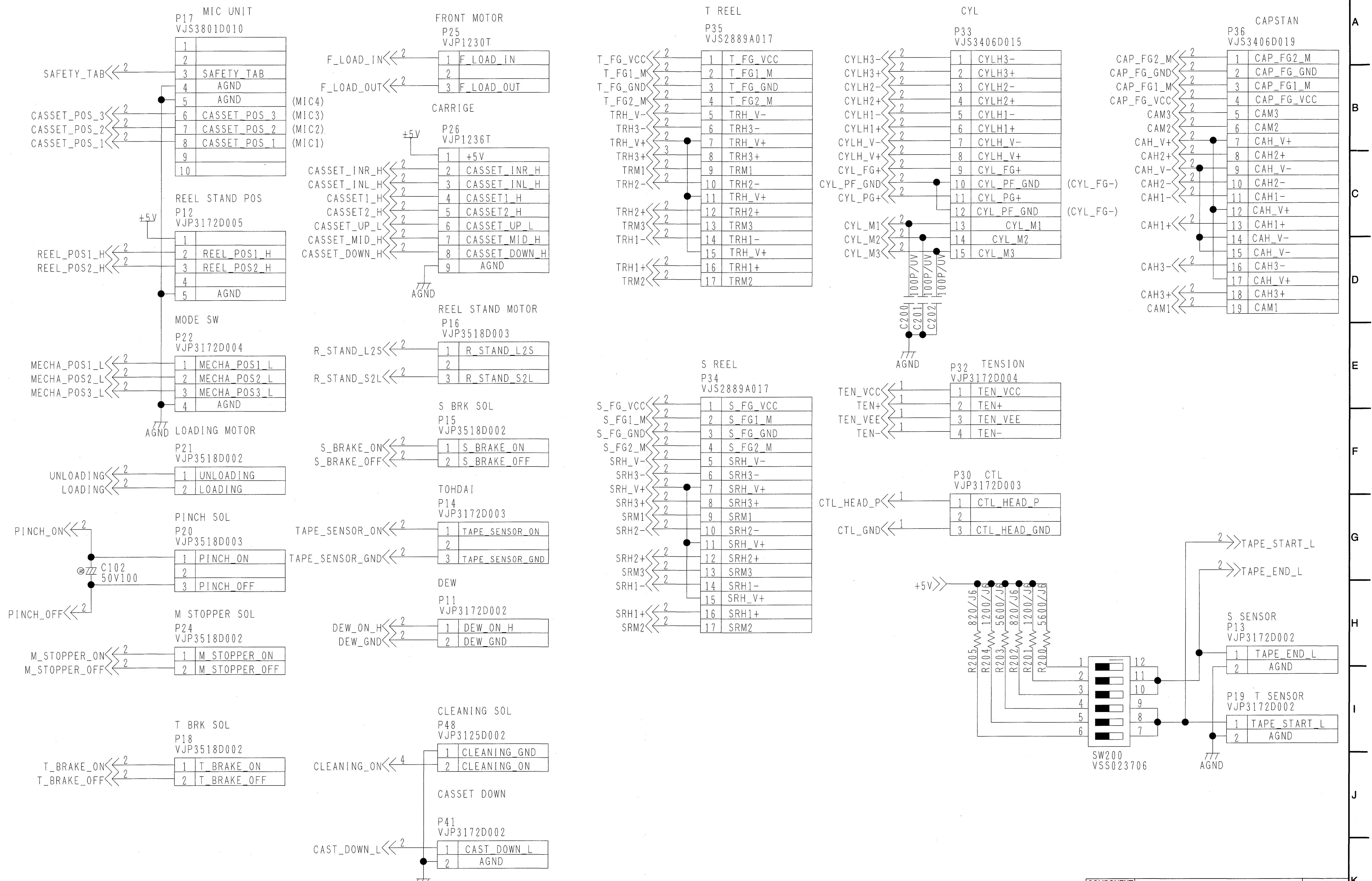
P1 VJP2891A030

	NO		
AGND	1	2	AGND
AGND	3	4	+12V
-12V	5	6	+5V
R_STAND_L2S	7	8	R_STAND_S2L
PINCH_ON	9	10	PINCH_OFF
S_BRAKE_ON	11	12	S_BRAKE_OFF
T_BRAKE_ON	13	14	T_BRAKE_OFF
M_STOPPER_OFF	15	16	M_STOPPER_ON
TRM1	17	18	TRM2
TRM3	19	20	SRM1
SRM2	21	22	SRM3
CAM1	23	24	CAM2
CAM3	25	26	CYL_M1
CYL_M2	27	28	CYL_M3
	29	30	CLE_ON_H

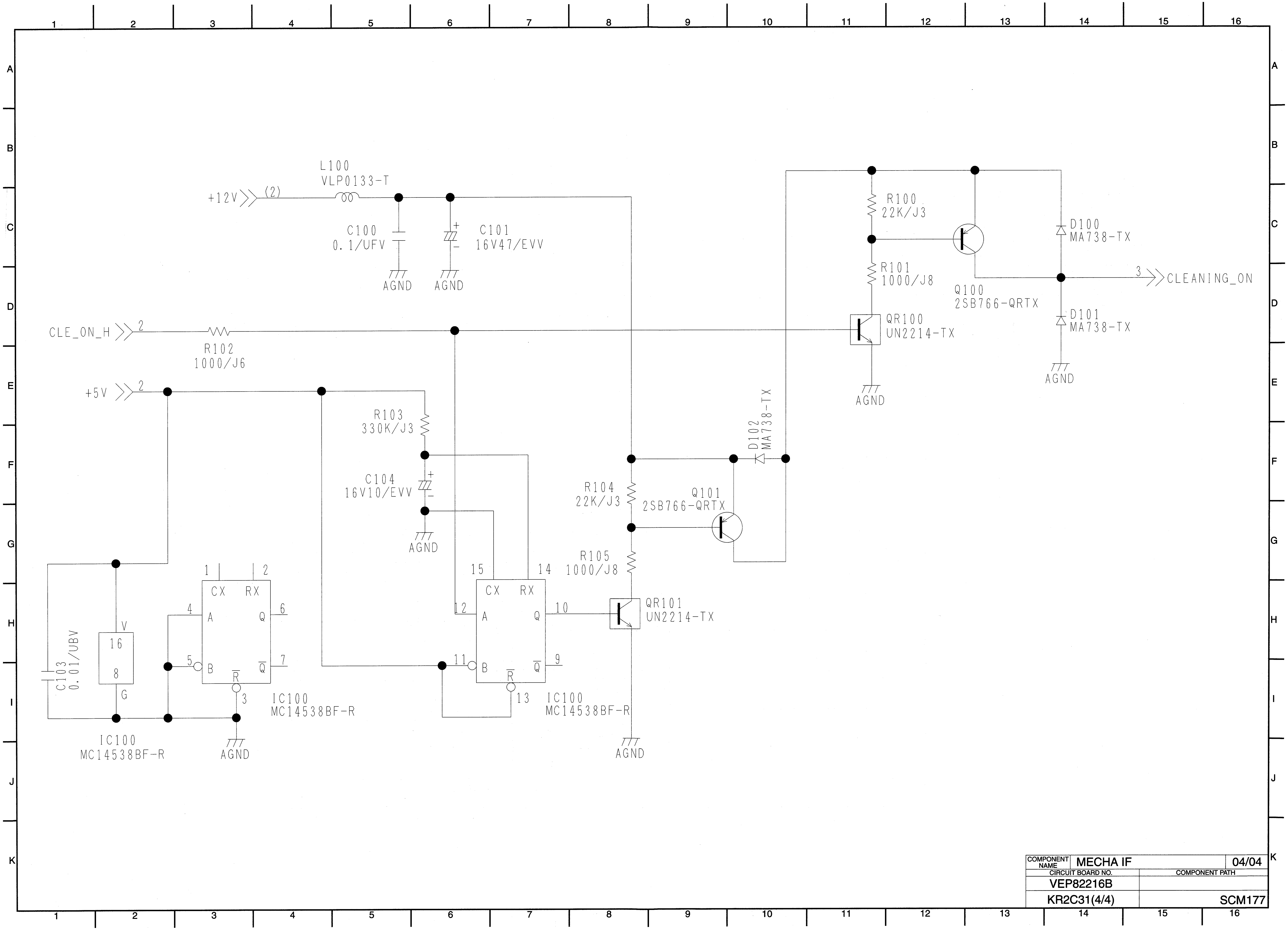
P2 VJP3418A080

A	NO	B
CTL_REC_CURR	1	CTL_PRE
CYL_PF_GND	2	CTL_GND
S_FG1_M	3	S_FG2_M
S_FG_VCC	4	S_FG_GND
T_FG1_M	5	T_FG2_M
T_FG_VCC	6	T_FG_GND
CYL_PG+	7	CYL_FG+
CAP_FG1_M	8	CAP_FG2_M
CAP_FG_VCC	9	CAP_FG_GND
CAH3+	10	CAH3-
CAH2+	11	CAH2-
CAH1+	12	CAH1-
CAH_V+	13	CAH_V-
SRH3+	14	SRH3-
SRH2+	15	SRH2-
SRH1+	16	SRH1-
SRH_V+	17	SRH_V-
TRH3+	18	TRH3-
TRH2+	19	TRH2-
TRH1+	20	TRH1-
TRH_V+	21	TRH_V-
CYLH3+	22	CYLH3-
CYLH2+	23	CYLH2-
CYLH1+	24	CYLH1-
CYLH_V+	25	CYLH_V-
TENSION	26	TENS_GND
LOADING	27	UNLOADING
TAPE_START_L	28	TAPE_END_L
F_LOAD_IN	29	F_LOAD_OUT
TAPE_SENSOR_ON	30	REEL_POS1_H
REEL_POS2_H	31	CAST_DOWN_L
SAFETY_TAB	32	MECHA_POS3_L
MECHA_POS2_L	33	MECHA_POS1_L
CASSET_DOWN_H	34	CASSET_UP_L
CASSET2_H	35	DEW_GND
CASSET1_H	36	DEW_ON_H
CASSET_INR_H	37	CASSET_INL_H
CASSET_MID_H	38	TAPE_SENSOR_GND
CASSET_POS_2	39	CASSET_POS_3
CLE_ON_H	40	CASSET_POS_1

COMPONENT NAME	MECHA IF	02/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82216B		
KR2C31(2/4)	SCM175	

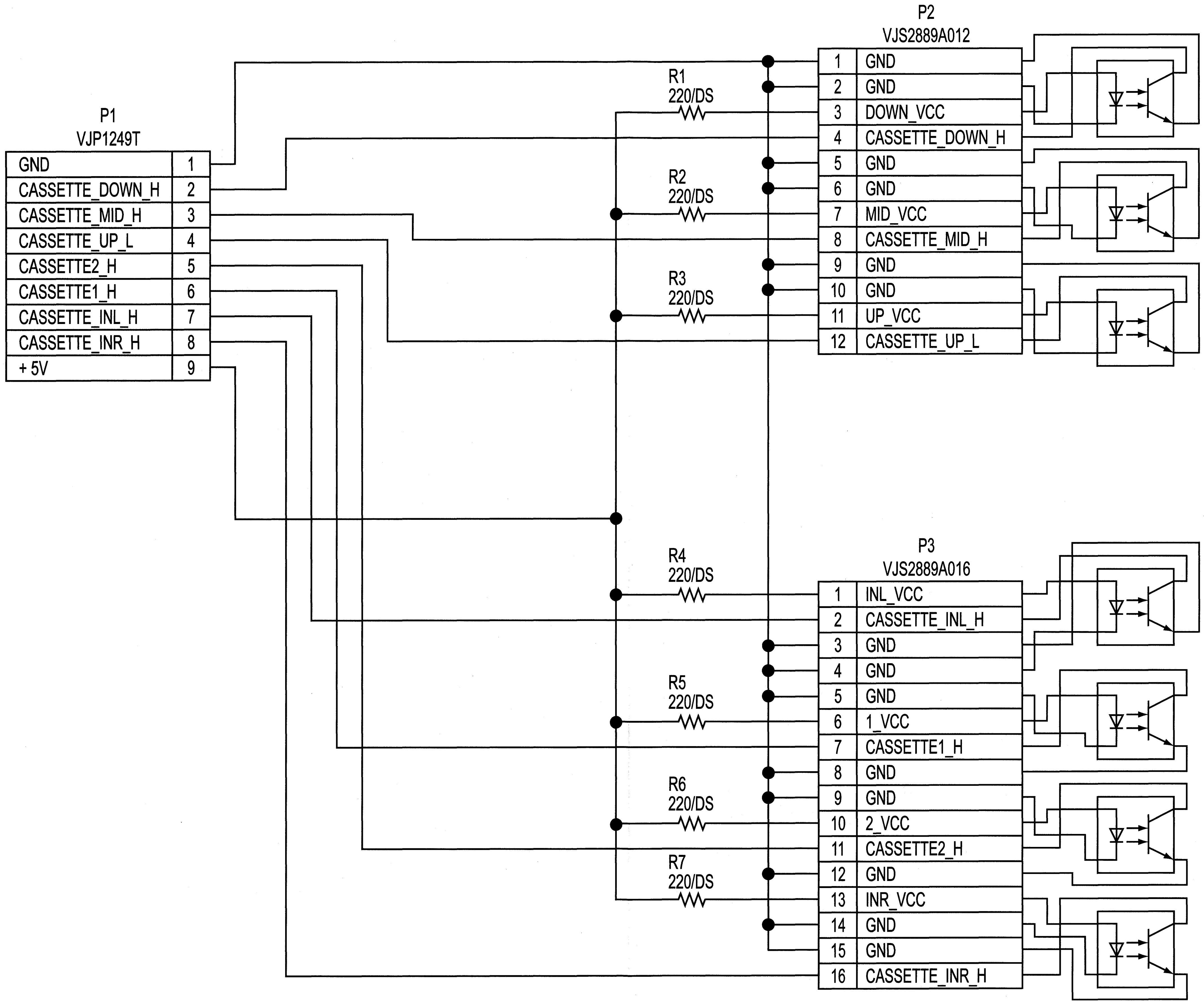

MIC UNIT
P17
VJS3801D010
SAFETY_TAB
AGND
CASSET_POS_3 (MIC4)
CASSET_POS_2 (MIC3)
CASSET_POS_1 (MIC2)
(MIC1)
REEL STAND POS
P12
VJP3172D005
+5V
REEL_POS1_H
REEL_POS2_H
AGND
MODE SW
P22
VJP3172D004
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
AGND
LOADING MOTOR
P21
VJP3518D002
UNLOADING
LOADING
PINCH SOL
P20
VJP3518D003
PINCH_ON
PINCH_OFF
C102
50V100
M STOPPER SOL
P24
VJP3518D002
M_STOPPER_ON
M_STOPPER_OFF
T BRK SOL
P18
VJP3518D002
T_BRAKE_ON
T_BRAKE_OFF
FRONT MOTOR
P25
VJP1230T
F_LOAD_IN
F_LOAD_OUT
CARRIGE
P26
VJP1236T
+5V
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
AGND
REEL STAND MOTOR
P16
VJP3518D003
R_STAND_L2S
R_STAND_S2L
S BRK SOL
P15
VJP3518D002
S_BRAKE_ON
S_BRAKE_OFF
TOHDAI
P14
VJP3172D003
TAPE_SENSOR_ON
TAPE_SENSOR_GND
DEW
P11
VJP3172D002
DEW_ON_H
DEW_GND
CLEANING SOL
P48
VJP3125D002
CLEANING_GND
CLEANING_ON
CASSET DOWN
P41
VJP3172D002
CAST_DOWN_L
AGND
T REEL
P35
VJS2889A017
T_FG_VCC
T_FG1_M
T_FG_GND
T_FG2_M
TRH_V-
TRH3-
TRH_V+
TRH3+
TRM1
TRH2-
TRH_V+
TRH2+
TRM3
TRH1-
TRH_V+
TRH1+
TRM2
S REEL
P34
VJS2889A017
S_FG_VCC
S_FG1_M
S_FG_GND
S_FG2_M
SRH_V-
SRH3-
SRH_V+
SRH3+
SRM1
SRH2-
SRH_V+
SRH2+
SRM3
SRH1-
SRH_V+
SRH1+
SRM2
CYL
P33
VJS3406D015
CYLH3-
CYLH3+
CYLH2-
CYLH2+
CYLH1-
CYLH1+
CYLH_V-
CYLH_V+
CYL_FG+
CYL_PF_GND (CYL_FG-)
CYL_PG+
CYL_PF_GND (CYL_FG-)
CYL_M1
CYL_M2
CYL_M3
C200 100P/UV
C201 100P/UV
C202 100P/UV
AGND
P32 TENSION
VJP3172D004
TEN_VCC
TEN+
TEN_VEE
TEN-
P30 CTL
VJP3172D003
CTL_HEAD_P
CTL_HEAD_GND
CTL_GND
CAPSTAN
P36
VJS3406D019
CAP_FG2_M
CAP_FG_GND
CAP_FG1_M
CAP_FG_VCC
CAM3
CAM2
CAH_V+
CAH2+
CAH_V-
CAH2-
CAH1-
CAH_V+
CAH1+
CAH_V-
CAH_V-
CAH3-
CAH_V+
CAH3+
CAM1
+5V
R205 820/J6
R204 1200/J6
R203 5600/J6
R202 820/J6
R201 1200/J6
R200 5600/J6
SW200
VSS023706
TAPE_START_L
TAPE_END_L
S SENSOR
P13
VJP3172D002
TAPE_END_L
AGND
P19 T SENSOR
VJP3172D002
TAPE_START_L
AGND

COMPONENT NAME	MECHA IF	03/04
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP82216B		
KR2C31(3/4)	SCM176	

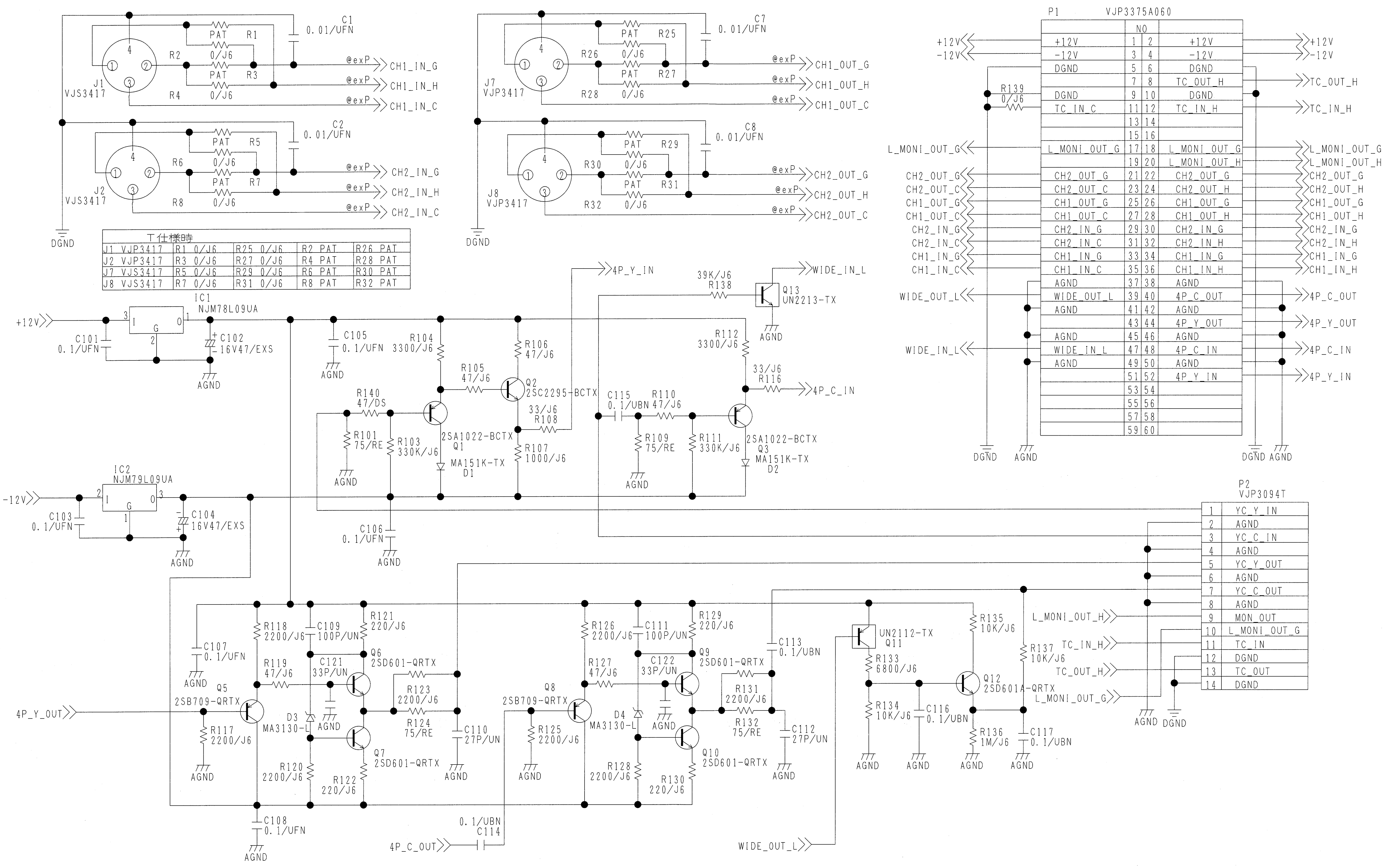


+12V
(2)
L100
VLP0133-T
C100
0.1/UFV
C101
16V47/EVV
AGND
AGND
CLE_ON_H
2
R102
1000/J6
+5V
2
R103
330K/J3
C104
16V10/EVV
AGND
R100
22K/J3
R101
1000/J8
Q100
2SB766-QRTX
D100
MA738-TX
D101
MA738-TX
3
CLEANING_ON
AGND
QR100
UN2214-TX
AGND
D102
MA738-TX
R104
22K/J3
Q101
2SB766-QRTX
R105
1000/J8
QR101
UN2214-TX
AGND
C103
0.01/UBV
V
16
8
G
IC100
MC14538BF-R
1
2
CX
RX
4
A
Q
6
5
B
R
Q
7
3
IC100
MC14538BF-R
AGND
15
14
CX
RX
12
A
Q
10
11
B
R
Q
9
13
IC100
MC14538BF-R

COMPONENT NAME	MECHA IF	04/04
CIRCUIT BOARD NO.		COMPONENT PATH
VEP82216B		
KR2C31(4/4)		SCM177

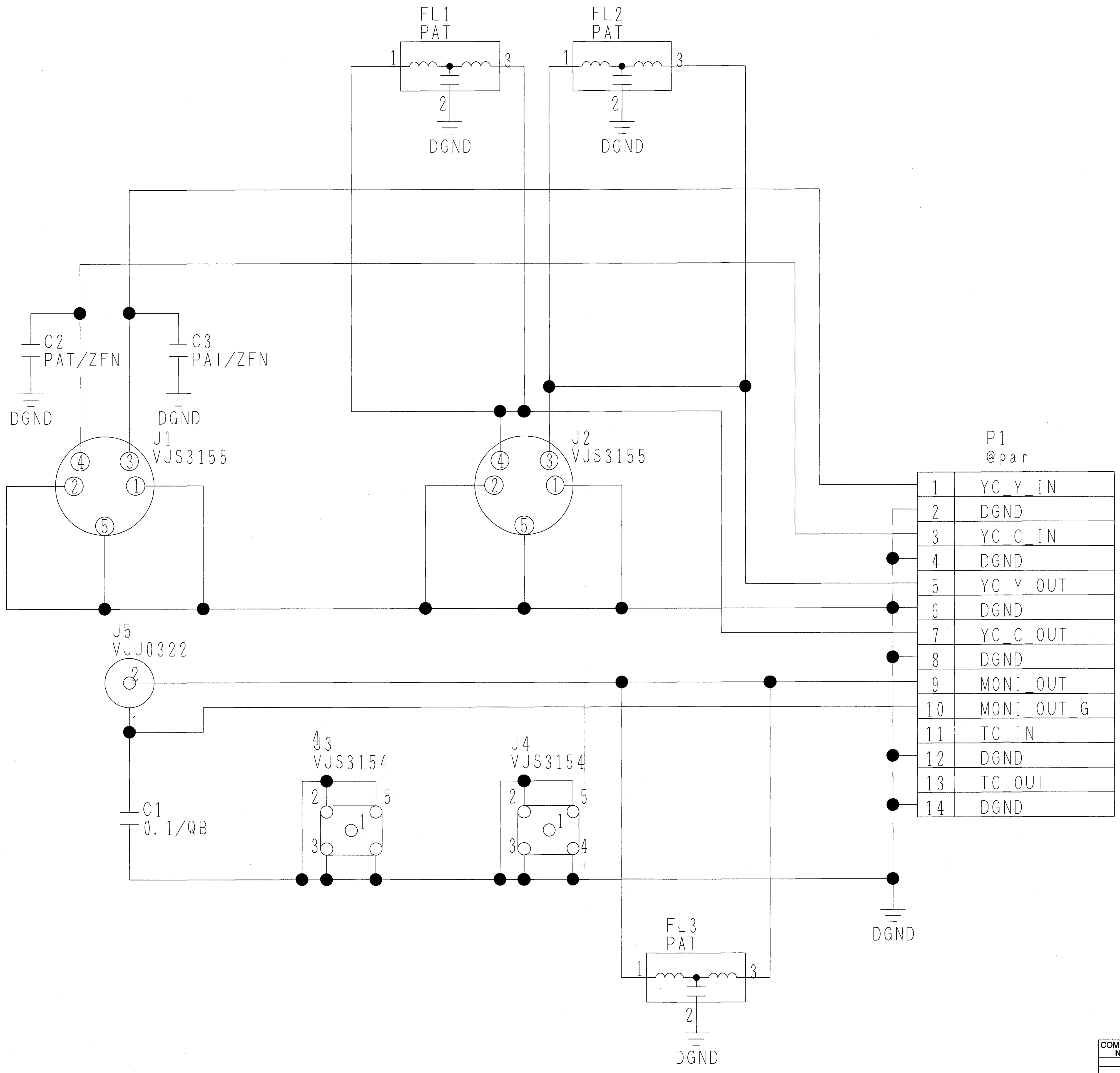

P1
VJP1249T
GND 1
CASSETTE_DOWN_H 2
CASSETTE_MID_H 3
CASSETTE_UP_L 4
CASSETTE2_H 5
CASSETTE1_H 6
CASSETTE_INL_H 7
CASSETTE_INR_H 8
+ 5V 9
P2
VJS2889A012
1 GND
2 GND
3 DOWN_VCC
4 CASSETTE_DOWN_H
5 GND
6 GND
7 MID_VCC
8 CASSETTE_MID_H
9 GND
10 GND
11 UP_VCC
12 CASSETTE_UP_L
R1 220/DS
R2 220/DS
R3 220/DS
R4 220/DS
R5 220/DS
R6 220/DS
R7 220/DS
P3
VJS2889A016
1 INL_VCC
2 CASSETTE_INL_H
3 GND
4 GND
5 GND
6 1_VCC
7 CASSETTE1_H
8 GND
9 GND
10 2_VCC
11 CASSETTE2_H
12 GND
13 INR_VCC
14 GND
15 GND
16 CASSETTE_INR_H

COMPONENT NAME	CARRIGE	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80856A		
		SCM178

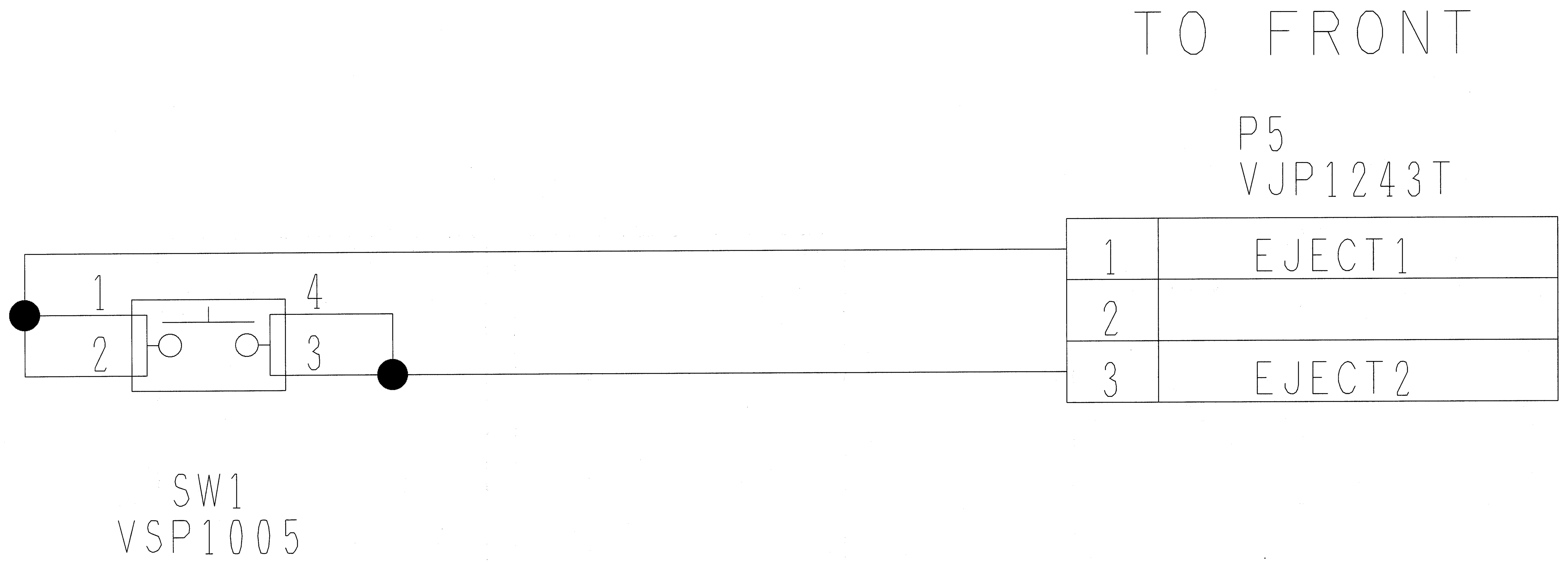

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K
J1
VJS3417
C1
0.01/UFN
PAT
R1
R2
0/J6
R3
R4
@exP
CH1_IN_G
CH1_IN_H
CH1_IN_C
J2
VJS3417
C2
0.01/UFN
R5
R6
R7
R8
CH2_IN_G
CH2_IN_H
CH2_IN_C
DGND
J7
VJP3417
C7
0.01/UFN
R25
R26
R27
R28
CH1_OUT_G
CH1_OUT_H
CH1_OUT_C
J8
VJP3417
C8
0.01/UFN
R29
R30
R31
R32
CH2_OUT_G
CH2_OUT_H
CH2_OUT_C
P1 VJP3375A060
NO
1 2 +12V +12V
3 4 -12V -12V
5 6 DGND DGND
7 8 TC_OUT_H
9 10 DGND DGND
11 12 TC_IN_C TC_IN_H
13 14
15 16
17 18 L_MONI_OUT_G L_MONI_OUT_G
19 20 L_MONI_OUT_H
21 22 CH2_OUT_G CH2_OUT_G
23 24 CH2_OUT_C CH2_OUT_H
25 26 CH1_OUT_G CH1_OUT_G
27 28 CH1_OUT_C CH1_OUT_H
29 30 CH2_IN_G CH2_IN_G
31 32 CH2_IN_C CH2_IN_H
33 34 CH1_IN_G CH1_IN_G
35 36 CH1_IN_C CH1_IN_H
37 38 AGND AGND
39 40 WIDE_OUT_L 4P_C_OUT
41 42 AGND AGND
43 44 4P_Y_OUT
45 46 AGND AGND
47 48 WIDE_IN_L 4P_C_IN
49 50 AGND AGND
51 52 4P_Y_IN
53 54
55 56
57 58
59 60
R139
0/J6
+12V
-12V
TC_OUT_H
TC_IN_H
L_MONI_OUT_G
L_MONI_OUT_H
WIDE_OUT_L
WIDE_IN_L
4P_C_OUT
4P_Y_OUT
4P_C_IN
4P_Y_IN
DGND AGND
IC1
NJM78L09UA
I G O
C101
0.1/UFN
C102
16V47/EXS
AGND
C105
0.1/UFN
R104
3300/J6
R105
47/J6
R106
47/J6
Q2
2SC2295-BCTX
33/J6
R108
R107
1000/J6
R140
47/DS
R101
75/RE
R103
330K/J6
2SA1022-BCTX
Q1
MA151K-TX
D1
4P_Y_IN
39K/J6
R138
Q13
UN2213-TX
WIDE_IN_L
R112
3300/J6
33/J6
R116
4P_C_IN
C115
0.1/UBN
R110
47/J6
R109
75/RE
R111
330K/J6
2SA1022-BCTX
Q3
MA151K-TX
D2
IC2
NJM79L09UA
-12V
C103
0.1/UFN
C104
16V47/EXS
C106
0.1/UFN
P2
VJP3094T
1 YC_Y_IN
2 AGND
3 YC_C_IN
4 AGND
5 YC_Y_OUT
6 AGND
7 YC_C_OUT
8 AGND
9 MON_OUT
10 L_MONI_OUT_G
11 TC_IN
12 DGND
13 TC_OUT
14 DGND
C107
0.1/UFN
R118
2200/J6
C109
100P/UN
R121
220/J6
Q6
2SD601-QRTX
R119
47/J6
C121
33P/UN
Q5
2SB709-QRTX
4P_Y_OUT
D3
MA3130-L
R117
2200/J6
R123
2200/J6
R124
75/RE
C110
27P/UN
Q7
2SD601-QRTX
R120
2200/J6
R122
220/J6
C108
0.1/UFN
R126
2200/J6
C111
100P/UN
R129
220/J6
Q9
2SD601-QRTX
R127
47/J6
C122
33P/UN
Q8
2SB709-QRTX
D4
MA3130-L
R125
2200/J6
R131
2200/J6
R132
75/RE
C112
27P/UN
Q10
2SD601-QRTX
R128
2200/J6
R130
220/J6
C113
0.1/UBN
0.1/UBN
C114
4P_C_OUT
WIDE_OUT_L
UN2112-TX
Q11
R133
6800/J6
R134
10K/J6
C116
0.1/UBN
R135
10K/J6
R137
10K/J6
Q12
2SD601A-QRTX
R136
1M/J6
C117
0.1/UBN
L_MONI_OUT_H
TC_IN_H
TC_OUT_H
L_MONI_OUT_G

T仕様時				
J1 VJP3417	R1 0/J6	R25 0/J6	R2 PAT	R26 PAT
J2 VJP3417	R3 0/J6	R27 0/J6	R4 PAT	R28 PAT
J7 VJS3417	R5 0/J6	R29 0/J6	R6 PAT	R30 PAT
J8 VJS3417	R7 0/J6	R31 0/J6	R8 PAT	R32 PAT

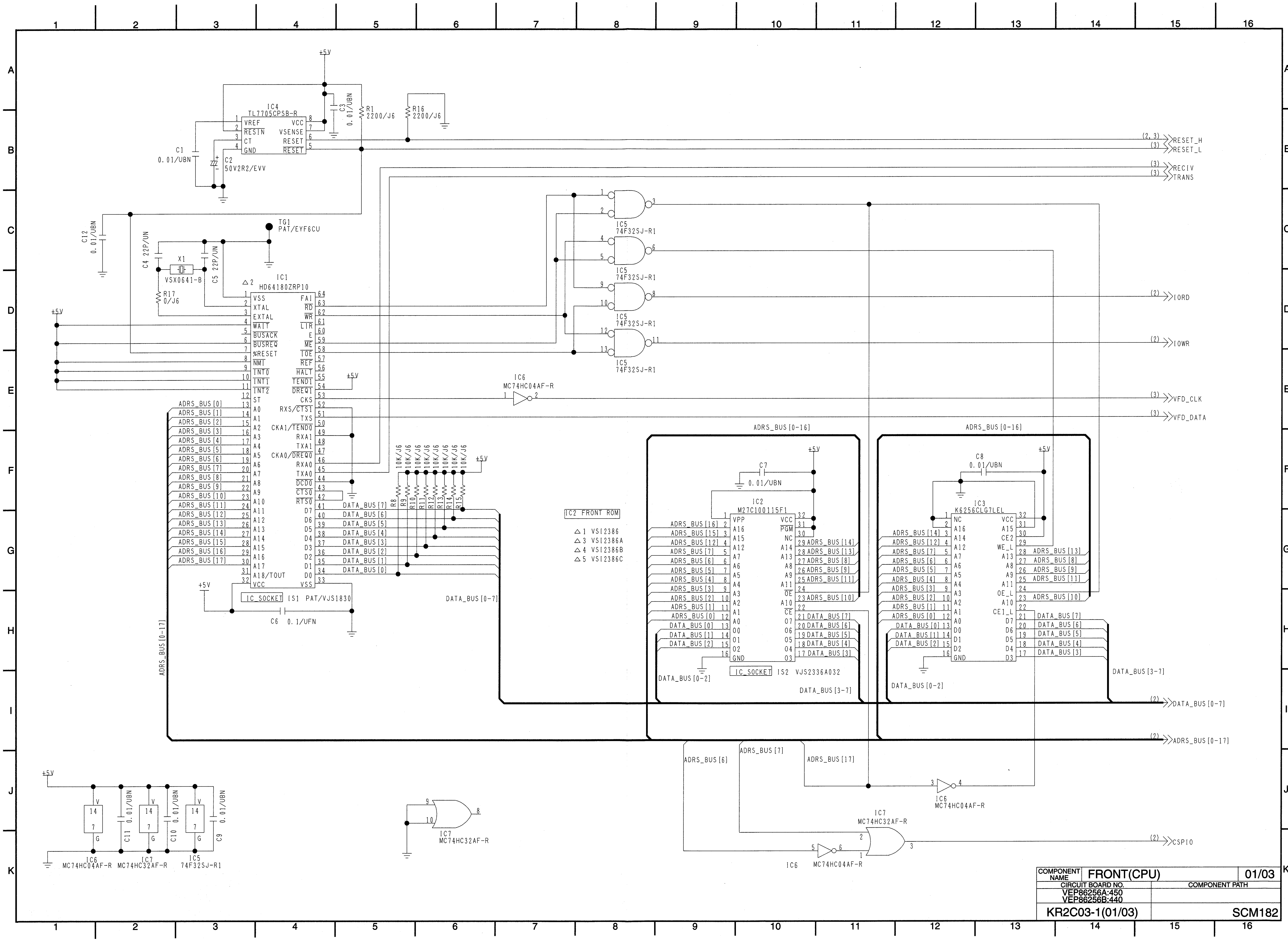
COMPONENT NAME	A_JACK	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP84291B:450 Japan only VEP84291A:450 Over Sea VEP84291F:440		
KR4F26(1/1)	SCM179	


FL1
PAT
1
3
2
DGND
FL2
PAT
1
3
2
DGND
C2
PAT/ZFN
DGND
C3
PAT/ZFN
DGND
J1
VJS3155
④
③
②
①
⑤
J2
VJS3155
④
③
②
①
⑤
P1
@par
1 YC_Y_IN
2 DGND
3 YC_C_IN
4 DGND
5 YC_Y_OUT
6 DGND
7 YC_C_OUT
8 DGND
9 MONI_OUT
10 MONI_OUT_G
11 TC_IN
12 DGND
13 TC_OUT
14 DGND
J5
VJJ0322
2
1
C1
0.1/QB
J3
VJS3154
2
5
1
3
J4
VJS3154
2
5
1
3
4
DGND
FL3
PAT
1
3
2
DGND

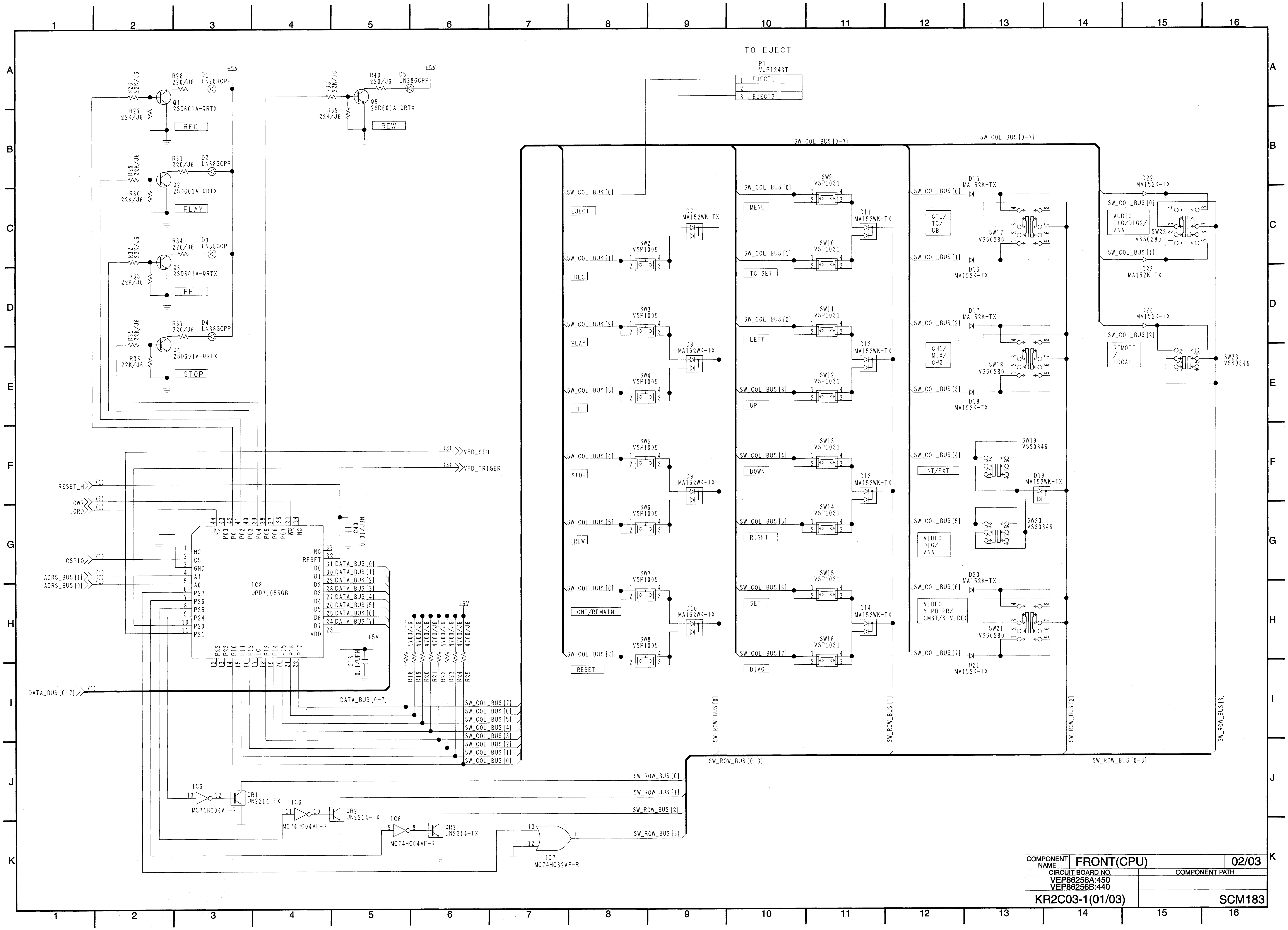
COMPONENT NAME	SUB_JACK	01/01
CIRCUIT BOARD NO.		COMPONENT PATH
VEP80A12A:450 VEP80A12B:440		
KR0J38(1/1)		SCM180


TO FRONT
P5
VJP1243T
1
EJECT1
2
3
EJECT2
1
4
2
3
SW1
VSP1005

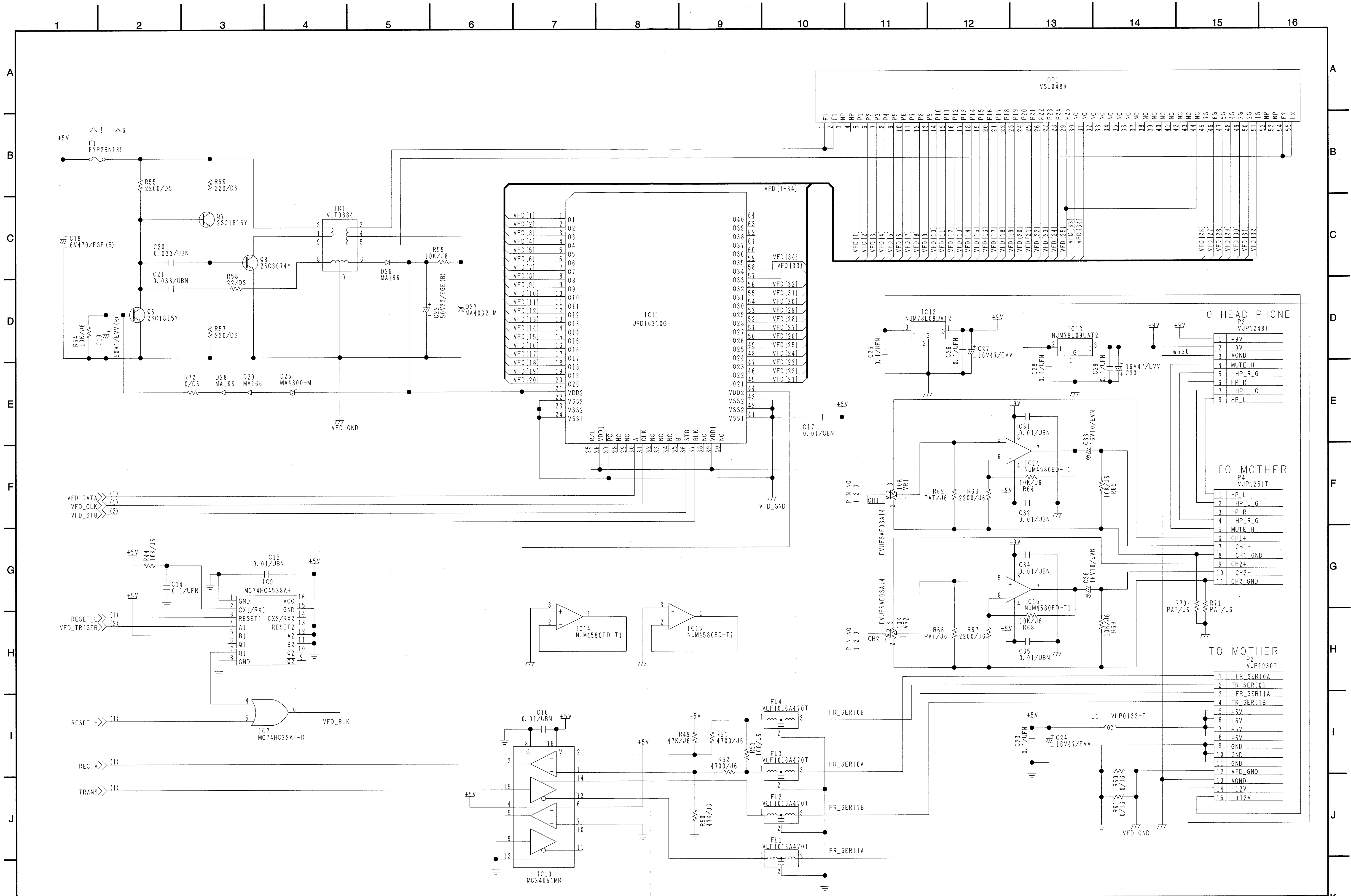
COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A09A		
KR0J35(1/1)		SCM181


IC4 TL7705CPSB-R
VREF
RESIN
CT
GND
VCC
VSENSE
RESET
RESET
C1 0.01/UBN
C2 50V2R2/EVV
C3 0.01/UBN
R1 2200/J6
R16 2200/J6
+5V
RESET_H
RESET_L
RECIV
TRANS
C12 0.01/UBN
TG1 PAT/EYF6CU
C4 22P/UN
C5 22P/UN
X1 VSX0641-B
R17 0/J6
IC1 HD64180ZRP10
VSS
XTAL
EXTAL
WAIT
BUSACK
BUSREQ
RESET
NMI
INT0
INT1
INT2
ST
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18/TOUT
VCC
FAI
RD
WR
LIR
E
ME
IOE
REF
HALT
TEND1
DREQ1
CKS
RXS/CTS1
TXS
CKA1/TEND0
RXA1
TXA1
CKA0/DREQ0
RXA0
TXA0
DCD0
CTS0
RTS0
D7
D6
D5
D4
D3
D2
D1
D0
VSS
ADRS_BUS[0]
ADRS_BUS[1]
ADRS_BUS[2]
ADRS_BUS[3]
ADRS_BUS[4]
ADRS_BUS[5]
ADRS_BUS[6]
ADRS_BUS[7]
ADRS_BUS[8]
ADRS_BUS[9]
ADRS_BUS[10]
ADRS_BUS[11]
ADRS_BUS[12]
ADRS_BUS[13]
ADRS_BUS[14]
ADRS_BUS[15]
ADRS_BUS[16]
ADRS_BUS[17]
ADRS_BUS[0-17]
DATA_BUS[0]
DATA_BUS[1]
DATA_BUS[2]
DATA_BUS[3]
DATA_BUS[4]
DATA_BUS[5]
DATA_BUS[6]
DATA_BUS[7]
DATA_BUS[0-7]
IC_SOCKET IS1 PAT/VJS1830
C6 0.1/UFN
R8 R9 R10 R11 R12 R13 R14 R15 10K/J6
IC5 74F32SJ-R1
IORD
IOWR
IC6 MC74HC04AF-R
VFD_CLK
VFD_DATA
IC2 FRONT ROM
△1 VS12386
△3 VS12386A
△4 VS12386B
△5 VS12386C
ADRS_BUS[0-16]
C7 0.01/UBN
IC2 M27C100115F1
VPP
PGM
NC
OE
CE
O0
O1
O2
O3
O4
O5
O6
O7
IC_SOCKET IS2 VJS2336A032
DATA_BUS[0-2]
DATA_BUS[3-7]
C8 0.01/UBN
IC3 K6256CLG7LEL
WE_L
OE_L
CE1_L
CE2
DATA_BUS[0-7]
ADRS_BUS[0-17]
ADRS_BUS[6]
ADRS_BUS[7]
ADRS_BUS[17]
IC7 MC74HC32AF-R
CSPIO
C11 0.01/UBN
C10 0.01/UBN
C9 0.01/UBN
IC6 MC74HC04AF-R
IC7 MC74HC32AF-R
IC5 74F32SJ-R1

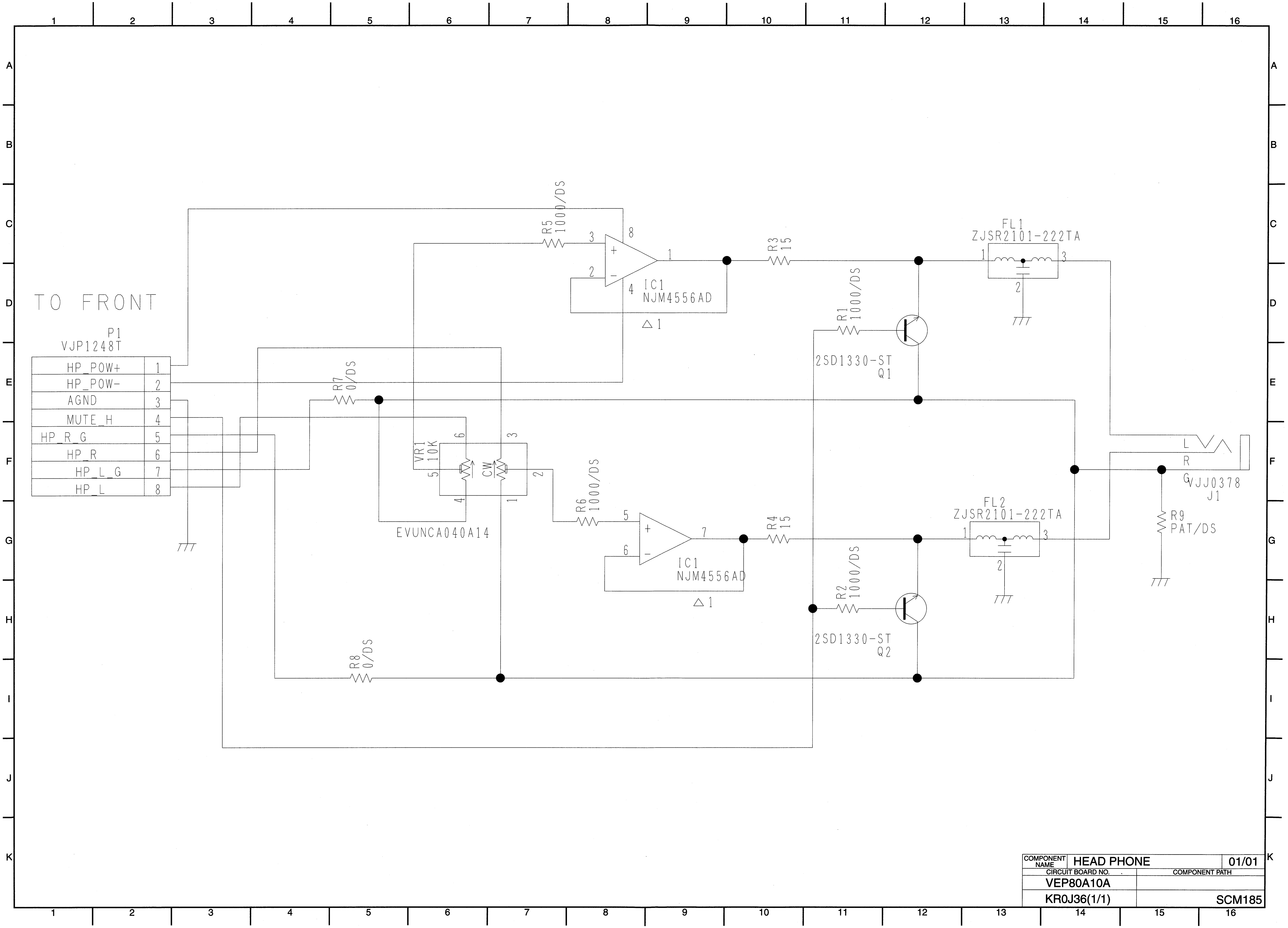
COMPONENT NAME	FRONT(CPU)	01/03
CIRCUIT BOARD NO. VEP86256A:450 VEP86256B:440	COMPONENT PATH	
KR2C03-1(01/03)		SCM182


TO EJECT
P1
VJP1243T
EJECT1
EJECT2
R26 22K/J6
R27 22K/J6
R28 220/J6
D1 LN28RCPP
Q1 2SD601A-QRTX
REC
R29 22K/J6
R30 22K/J6
R31 220/J6
D2 LN38GCPP
Q2 2SD601A-QRTX
PLAY
R32 22K/J6
R33 22K/J6
R34 220/J6
D3 LN38GCPP
Q3 2SD601A-QRTX
FF
R35 22K/J6
R36 22K/J6
R37 220/J6
D4 LN38GCPP
Q4 2SD601A-QRTX
STOP
R38 22K/J6
R39 22K/J6
R40 220/J6
D5 LN38GCPP
Q5 2SD601A-QRTX
REW
+5V
SW_COL_BUS[0-7]
SW1 EJECT
SW2 VSP1005 REC
SW3 VSP1005 PLAY
SW4 VSP1005 FF
SW5 VSP1005 STOP
SW6 VSP1005 REW
SW7 VSP1005 CNT/REMAIN
SW8 VSP1005 RESET
D7 MA152WK-TX
D8 MA152WK-TX
D9 MA152WK-TX
D10 MA152WK-TX
SW9 VSP1031 MENU
SW10 VSP1031 TC SET
SW11 VSP1031 LEFT
SW12 VSP1031 UP
SW13 VSP1031 DOWN
SW14 VSP1031 RIGHT
SW15 VSP1031 SET
SW16 VSP1031 DIAG
D11 MA152WK-TX
D12 MA152WK-TX
D13 MA152WK-TX
D14 MA152WK-TX
D15 MA152K-TX
D16 MA152K-TX
CTL/ TC/ UB
SW17 VSS0280
D17 MA152K-TX
D18 MA152K-TX
CH1/ MIX/ CH2
SW18 VSS0280
SW19 VSS0346
INT/EXT
D19 MA152WK-TX
SW20 VSS0346
VIDEO DIG/ ANA
D20 MA152K-TX
D21 MA152K-TX
VIDEO Y PB PR/ CMST/S VIDEO
SW21 VSS0280
D22 MA152K-TX
D23 MA152K-TX
AUDIO DIG/DIG2/ ANA
SW22 VSS0280
D24 MA152K-TX
REMOTE / LOCAL
SW23 VSS0346
SW_ROW_BUS[0]
SW_ROW_BUS[1]
SW_ROW_BUS[2]
SW_ROW_BUS[3]
SW_ROW_BUS[0-3]
(3) VFD_STB
(3) VFD_TRIGER
RESET_H (1)
IOWR (1)
IORD (1)
CSPIO (1)
ADRS_BUS[1] (1)
ADRS_BUS[0] (1)
DATA_BUS[0-7] (1)
IC8
UPD71055GB
NC CS GND A1 A0 P27 P26 P25 P24 P20 P21
RD P00 P01 P02 P03 P04 P05 P06 P07 WR NC
NC RESET D0 D1 D2 D3 D4 D5 D6 D7 VDD
P22 P23 P10 P11 P12 IC P13 P14 P15 P16 P17
DATA_BUS[0] … DATA_BUS[7]
C40 0.01/UBN
C13 0.1/UFN
R18 R19 R20 R21 R22 R23 R24 R25 4700/J6
SW_COL_BUS[0] … SW_COL_BUS[7]
IC6 MC74HC04AF-R
QR1 UN2214-TX
QR2 UN2214-TX
QR3 UN2214-TX
IC7 MC74HC32AF-R

COMPONENT NAME	FRONT(CPU)	02/03
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP86256A:450 VEP86256B:440		
KR2C03-1(01/03)	SCM183	


DP1
VSL0489
F1
EYP2BN135
+5V
R55
2200/DS
R56
220/DS
Q7
2SC1815Y
Q8
2SC3074Y
Q6
2SC1815Y
C18
6V470/EGE(B)
C20
0.033/UBN
C21
0.033/UBN
R58
22/DS
R57
220/DS
R54
10K/J6
C19
50V1/EVV(R)
TR1
VLT0884
D26
MA166
R59
10K/J8
C22
50V33/EGE(B)
D27
MA4062-M
R72
0/DS
D28
MA166
D29
MA166
D25
MA4300-M
VFD_GND
VFD[1-34]
IC11
UPD16310GF
C17
0.01/UBN
VFD_DATA
VFD_CLK
VFD_STB
R44
10K/J6
C14
0.1/UFN
C15
0.01/UBN
IC9
MC74HC4538AR
RESET_L
VFD_TRIGER
RESET_H
IC7
MC74HC32AF-R
VFD_BLK
IC14
NJM4580ED-T1
IC15
NJM4580ED-T1
C16
0.01/UBN
IC10
MC34051MR
RECIV
TRANS
R49
47K/J6
R51
4700/J6
R52
4700/J6
R53
100/J6
R50
47K/J6
FL4
VLF1016A470T
FL3
VLF1016A470T
FL2
VLF1016A470T
FL1
VLF1016A470T
FR_SERI0B
FR_SERI0A
FR_SERI1B
FR_SERI1A
IC12
NJM78L09UAT2
C25
0.1/UFN
C26
0.1/UFN
C27
16V47/EVV
+9V
IC13
NJM79L09UAT2
-9V
C28
0.1/UFN
C29
0.1/UFN
C30
16V47/EVV
TO HEAD PHONE
P3
VJP1248T
+9V
-9V
AGND
MUTE_H
HP_R_G
HP_R
HP_L_G
HP_L
C31
0.01/UBN
C33
16V10/EVN
R62
PAT/J6
R63
2200/J6
R64
10K/J6
R65
10K/J6
C32
0.01/UBN
VR1
10K
EVUF5AE03A14
CH1
PIN NO
1 2 3
TO MOTHER
P4
VJP1251T
HP_L
HP_L_G
HP_R
HP_R_G
MUTE_H
CH1+
CH1-
CH1_GND
CH2+
CH2-
CH2_GND
C34
0.01/UBN
C36
16V10/EVN
R66
PAT/J6
R67
2200/J6
R68
10K/J6
R69
10K/J6
C35
0.01/UBN
VR2
10K
CH2
R70
PAT/J6
R71
PAT/J6
TO MOTHER
P2
VJP1930T
FR_SERI0A
FR_SERI0B
FR_SERI1A
FR_SERI1B
+5V
GND
VFD_GND
AGND
-12V
+12V
L1
VLP0133-T
C23
0.1/UFN
C24
16V47/EVV
R60
0/J6
R61
0/J6

COMPONENT NAME	FRONT(CPU)	03/03
CIRCUIT BOARD NO.		COMPONENT PATH
VEP86256A:450 VEP86256B:440		
KR2C03-1(01/03)		SCM184


TO FRONT
P1
VJP1248T
HP_POW+ 1
HP_POW- 2
AGND 3
MUTE_H 4
HP_R_G 5
HP_R 6
HP_L_G 7
HP_L 8
R5
1000/DS
3
8
+
-
2
1
4
IC1
NJM4556AD
△1
R3
15
FL1
ZJSR2101-222TA
1
3
2
R1
1000/DS
2SD1330-ST
Q1
R7
0/DS
VR1
10K
6
3
5
CW
2
4
1
EVUNCA040A14
R6
1000/DS
5
7
6
IC1
NJM4556AD
△1
R4
15
FL2
ZJSR2101-222TA
1
3
2
R2
1000/DS
2SD1330-ST
Q2
R8
0/DS
L
R
G
VJJ0378
J1
R9
PAT/DS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J K

COMPONENT NAME	HEAD PHONE	01/01
CIRCUIT BOARD NO.	COMPONENT PATH	
VEP80A10A		
KR0J36(1/1)	SCM185	

SECTION 8

CIRCUIT BOARD DIAGRAMS

CONTENTS

MOTHER P.C. BOARD (VEP80A11A) ········ PCB-1
F1: SERVO P.C. BOARD (NTSC: VEP82105F, PAL: VEP82105G) ········ PCB-2
F2: SYSCON P.C. BOARD (VEP86146M: 450(NTSC), VEP86146P: 440(NTSC) VEP86146N: 450(PAL), VEP86146Q: 440(PAL)) ········ PCB-4
F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL) · PCB-6
F5: REC PB P.C. BOARD (VEP83353D: NSTC, VEP83353E: PAL) ········ PCB-8
F6: V IN P.C. BOARD (VEP83397B: 450(NTSC), VEP83397A: Japan only) ········ PCB-10
F6: V IN P.C. BOARD (VEP83398A: 450(PAL)) ········ PCB-12
F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440) ········ PCB-14
F8: ADDA P.C. BOARD (VEP84293A: NTSC, VEP84293B: PAL) ········ PCB-16
FRONT CPU P.C. BOARD (VEP86256A: 450 and 440(PAL), VEP86256B: 440(NTSC)) ···· PCB-18
EJECT P.C. BOARD (VEP80A09A) ········ PCB-18
H4: RF AMP P.C. BOARD (VEP85049A) ········ PCB-20
HEAD BUFFER P.C. BOARD (VEP85151A) ········ PCB-21
MECHA I/F P.C. BOARD (VEP82216B) ········ PCB-22
H3:EQ P.C. BOARD (VEP85048A) ········ PCB-23
POWER 1 P.C. BOARD (VEP81074A: NTSC) ········ PCB-24
POWER 2 P.C. BOARD (VEP81075A: NTSC) ········ PCB-25
POWER 1 P.C. BOARD (VEP81183A: PAL) ········ PCB-26
POWER 2 P.C. BOARD (VEP81184B: PAL) ········ PCB-26

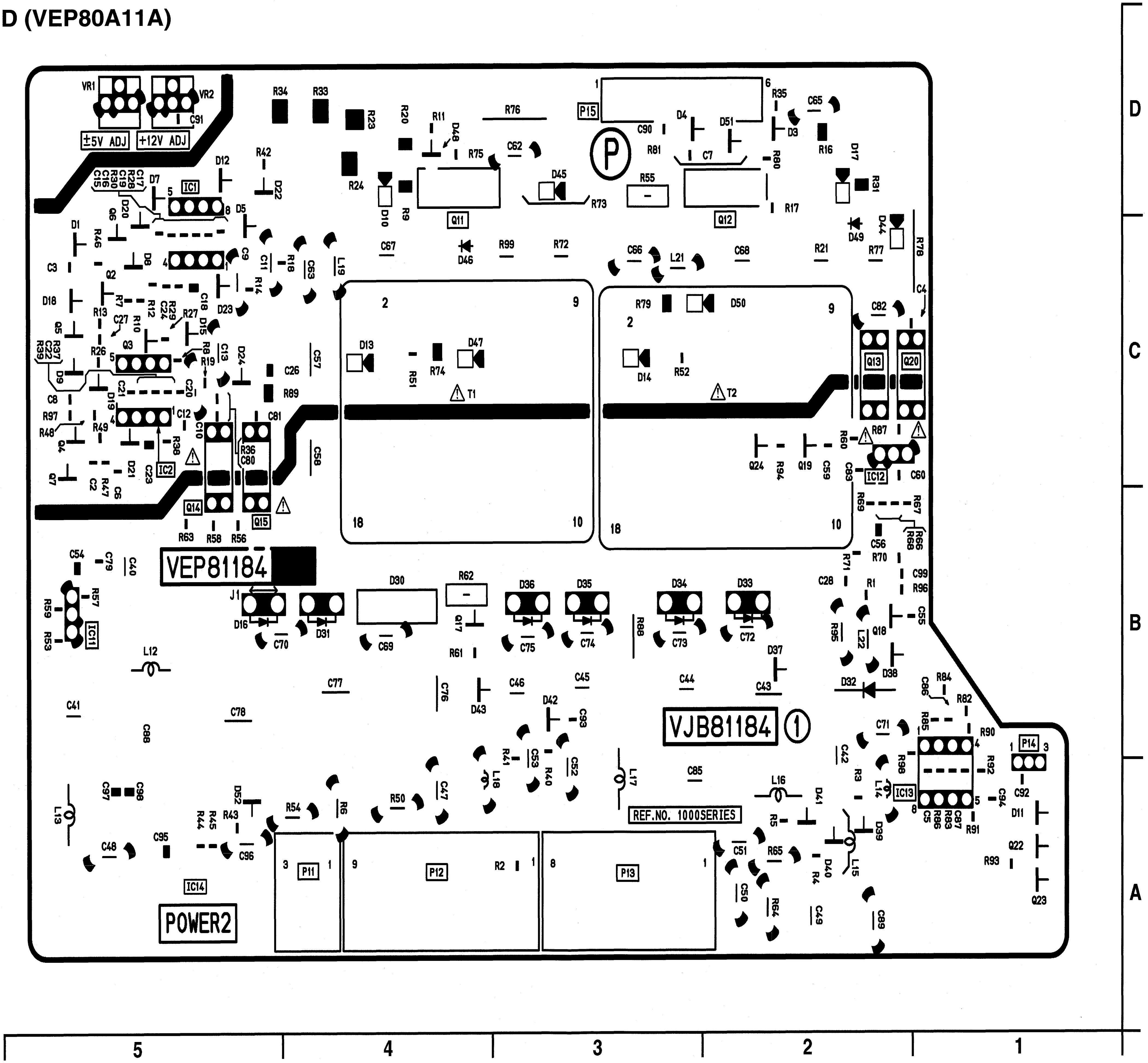
NOTE:
DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST.
AND MAY BE SLIGHTLY DIFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

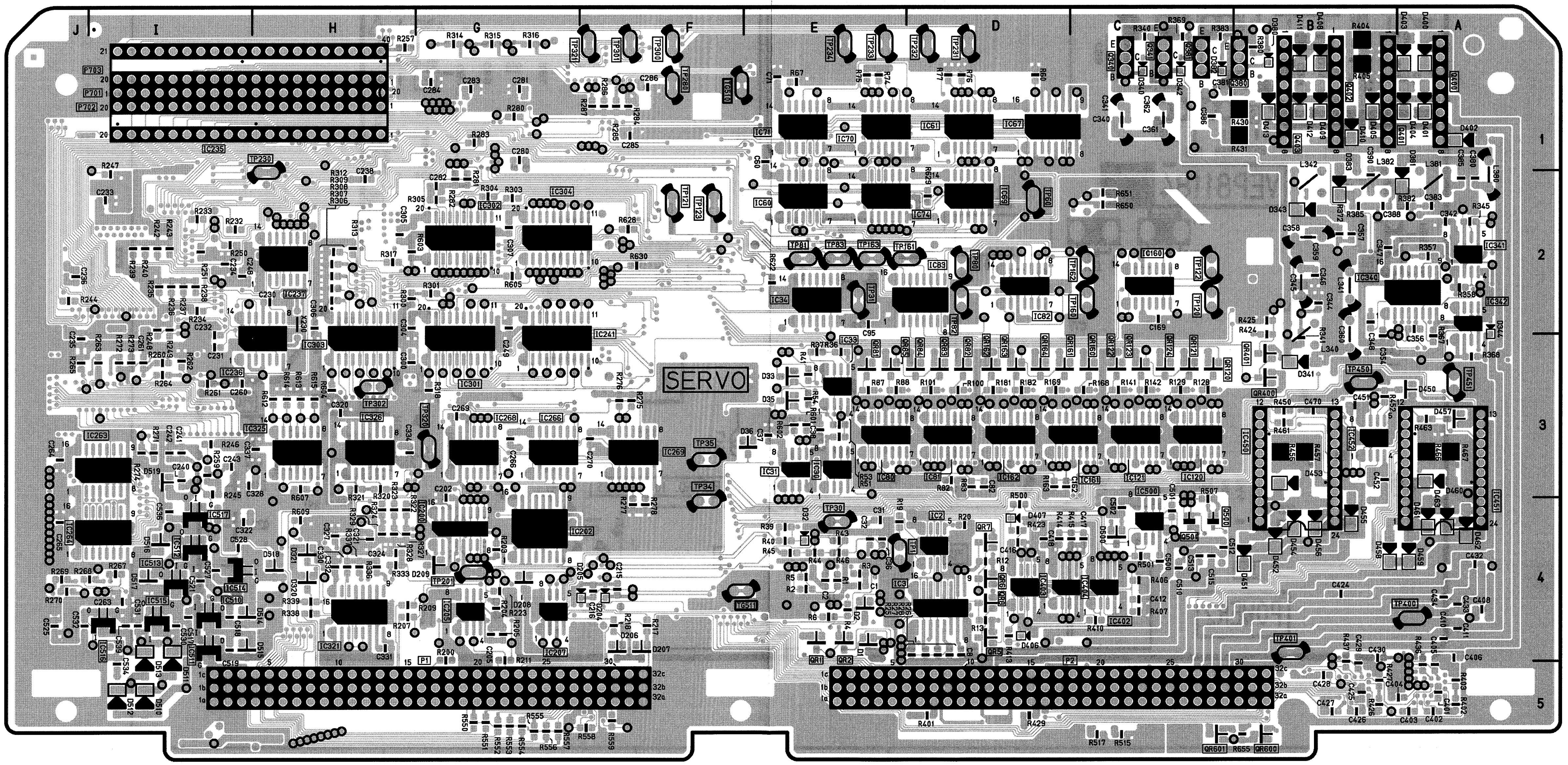
MOTHER P.C. BOARD (VEP80A11A)


VEP81184
VJB81184 ①
REF.NO. 1000SERIES
POWER2
±5V ADJ
+12V ADJ
P
5
4
3
2
1
D
C
B
A

F1: SERVO P.C. BOARD (VEP82105F: NTSC, VEP82105G: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC120	C3	IC264	I4	IC33	E3	IC514	I4	IC83	D2	QR2	E4
IC121	C3	IC266	G3	IC34	E2	IC515	I4	Q500	C4	QR400	B3
IC160	C2	IC268	G3	IC340	A2	IC516	I4	Q501	C4	QR401	B3
IC161	C3	IC269	F3	IC341	A2	IC517	I4	QR1	E4	QR5	D4
IC162	D3	IC3	D4	IC342	A2	IC60	E2	QR120	C3	QR6	D4
IC2	D4	IC30	E3	IC402	C4	IC61	D1	QR121	C3	QR600	B5
IC200	G4	IC301	G3	IC403	D4	IC67	D1	QR122	C3	QR601	C5
IC202	G4	IC302	G2	IC404	D4	IC69	D2	QR123	C3	QR7	D4
IC205	G4	IC303	H3	IC452	B3	IC70	E1	QR124	C3	QR8	D4
IC207	G4	IC304	G2	IC500	C4	IC71	E1	QR160	C3	QR81	E3
IC236	H3	IC31	E3	IC510	I4	IC74	E2	QR161	D3	QR82	D3
IC237	H2	IC321	H4	IC511	I4	IC80	E3	QR162	D3	QR83	D3
IC241	G3	IC325	H3	IC512	I4	IC81	D3	QR163	D3	QR84	D3
IC263	I3	IC326	H3	IC513	I4	IC82	D2	QR164	D3	QR85	E3

(FOIL SIDE)

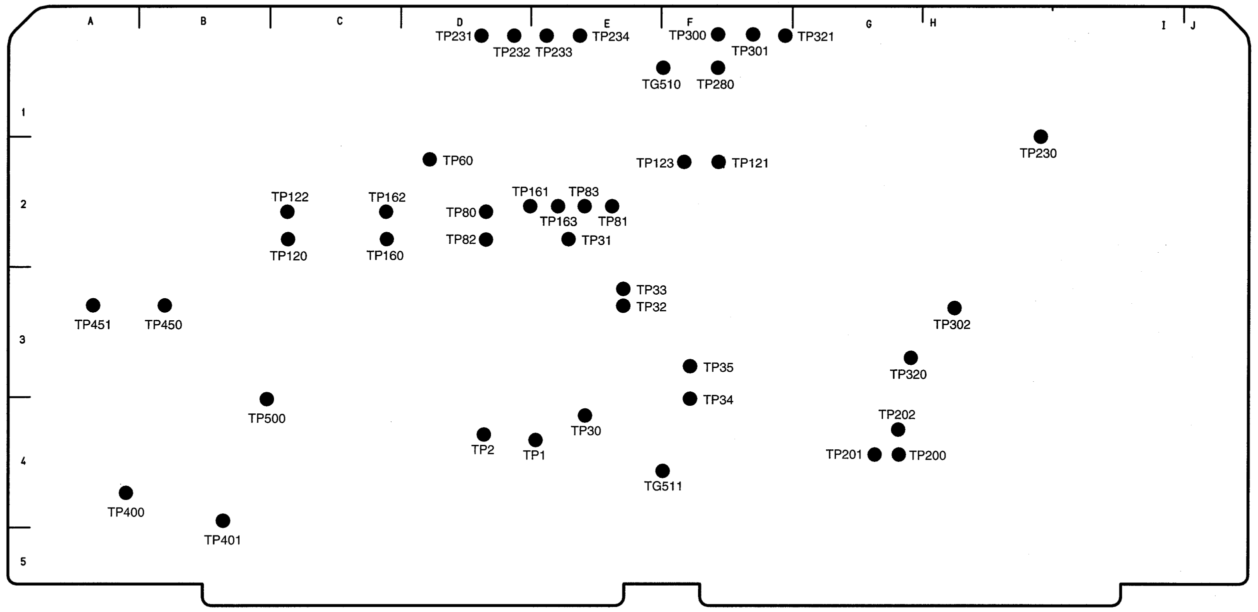


(FOIL SIDE)

F1: SERVO P.C. BOARD (VEP82105F: NTSC, VEP82105G: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	E4	IC320	H4	P703	H1	QR4	E4	TP280	F1	TP83	E2
IC201	G4	IC322	H3	Q1	E4	TG510	F1	TP30	E4	X230	H2
IC203	F4	IC323	H4	Q2	E4	TG511	F4	TP300	F1	X320	H4
IC204	G3	IC324	H3	Q3	E4	TP1	E4	TP301	F1		
IC230	I2	IC35	E3	Q340	C1	TP120	C2	TP302	H3		
IC231	I3	IC400	A5	Q341	C1	TP121	F2	TP31	E2		
IC235	H1	IC401	B5	Q380	B1	TP122	C2	TP32	E3		
IC238	H2	IC450	B4	Q381	C1	TP123	F2	TP320	G3		
IC239	H2	IC451	A4	Q4	E4	TP160	C2	TP321	F1		
IC240	H2	IC600	C2	Q400	A1	TP161	D2	TP33	E3		
IC260	I3	IC63	E2	Q401	B1	TP162	C2	TP34	F4		
IC261	I3	IC64	E1	Q402	B1	TP163	E2	TP35	F3		
IC262	I4	IC65	E1	Q403	B1	TP2	D4	TP400	A4		
IC265	G3	IC66	E2	Q5	E4	TP200	G4	TP401	B4		
IC267	G3	IC68	D1	Q510	C4	TP201	G4	TP450	B3		
IC280	F1	IC72	D2	Q511	C4	TP202	G4	TP451	A3		
IC281	F1	IC73	D1	Q6	E4	TP230	H2	TP500	B4		
IC282	G1	P1	G5	QR3	E4	TP231	D1	TP60	D2		
IC300	H2	P2	D5	QR30	E3	TP232	D1	TP80	D2		
IC305	G2	P701	I1	QR340	A2	TP233	E1	TP81	E2		
IC32	E4	P702	H1	QR341	A2	TP234	E1	TP82	D2		

(COMPONENT SIDE)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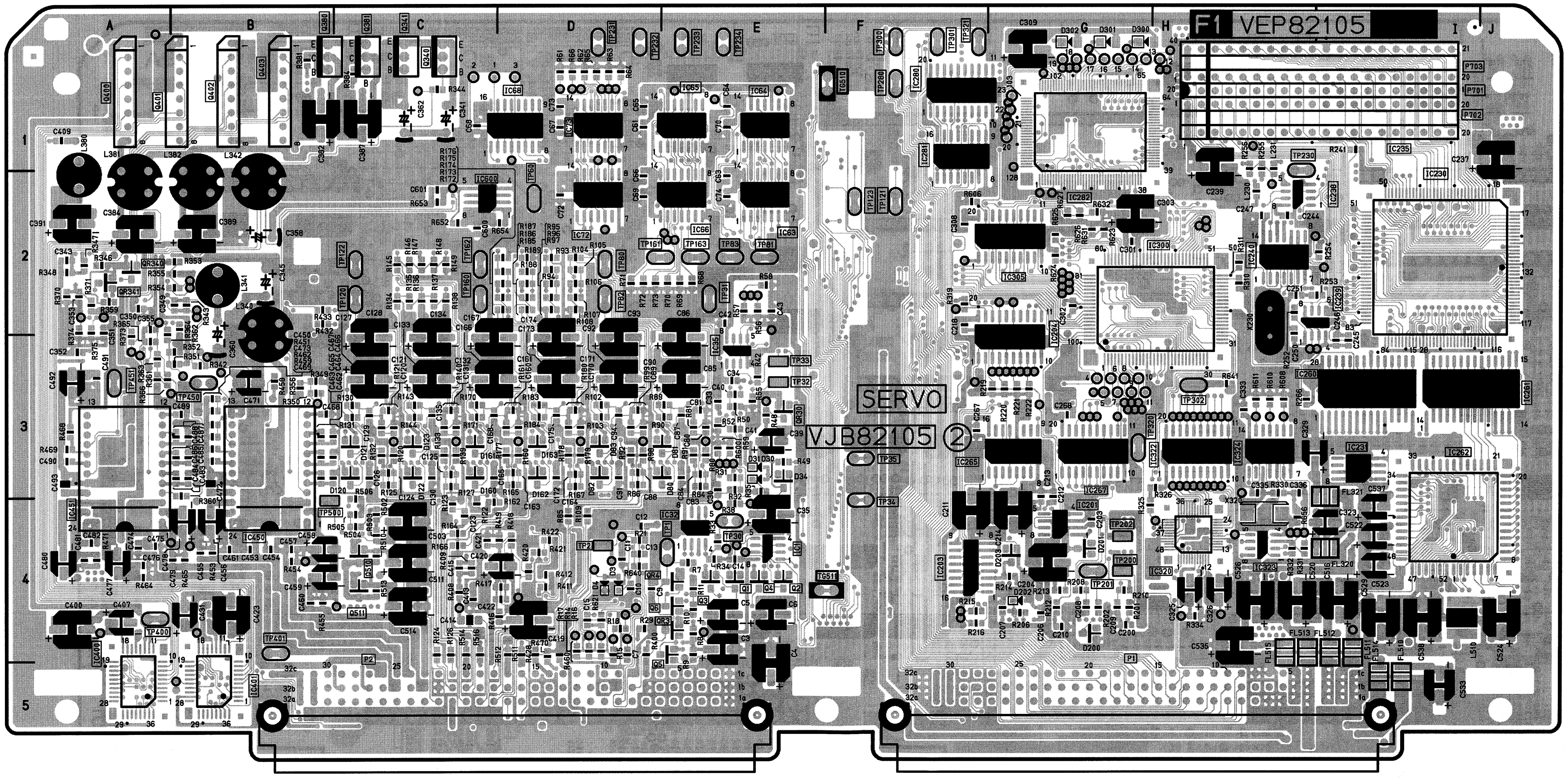
F1 VEP82105
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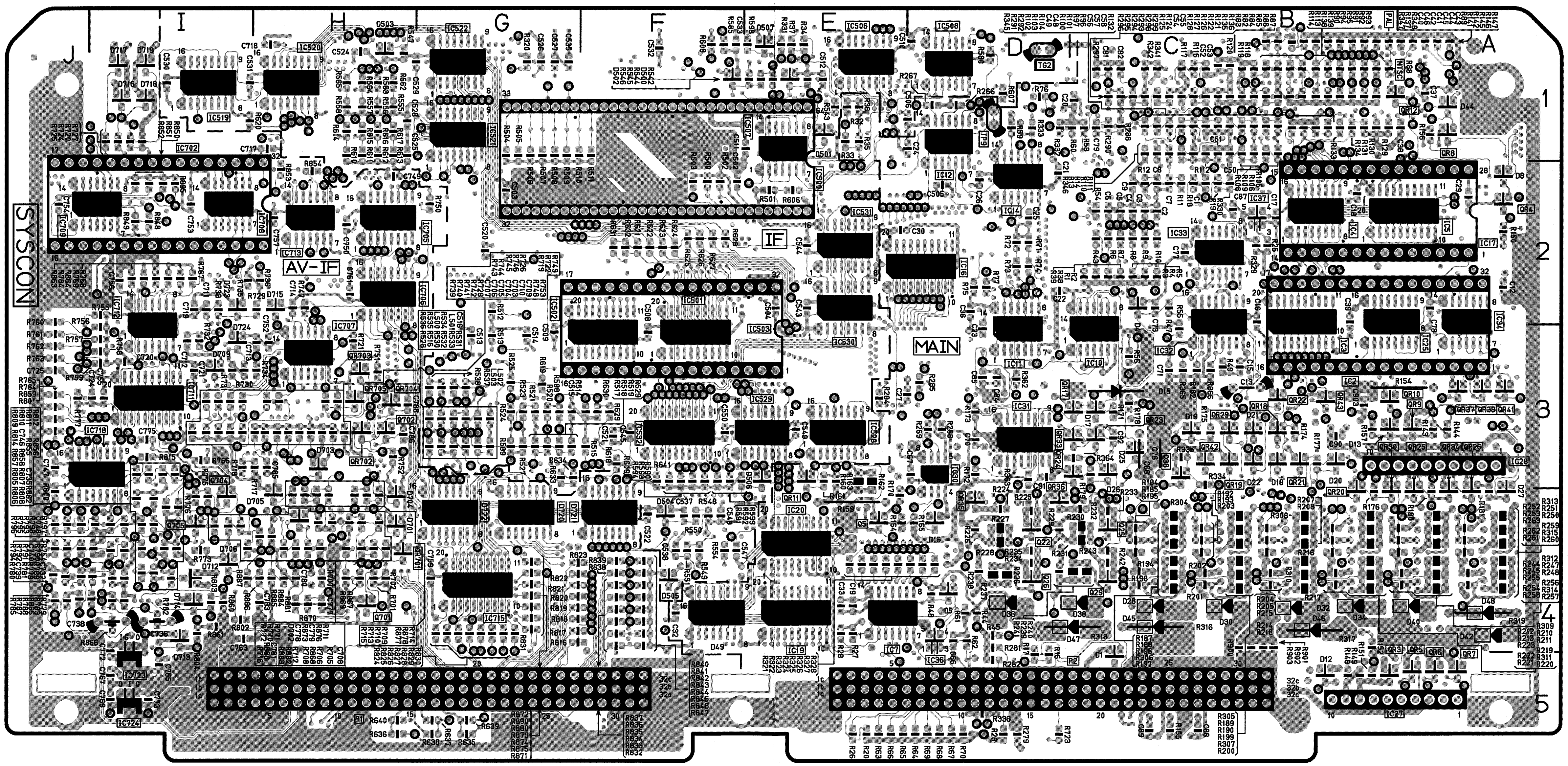
(COMPONENT SIDE)

F2: SYSCON P.C. BOARD (VEP86146M: 450 (NTSC), VEP86146P: 440 (NTSC), VEP86146N: 450 (PAL), VEP86146Q: 440 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC10	C2	IC36	D4	IC529	E3	IC718	I3	QR11	E3	QR30	B4	QR702	H3
IC11	D2	IC37	B2	IC530	E2	IC723	I5	QR12	B1	QR33	C3	QR703	H3
IC12	D1	IC4	B2	IC531	E2	IC724	I5	QR17	C3	QR34	A4	QR704	H3
IC14	D2	IC5	A2	IC532	F3	Q22	D4	QR18	B3	QR35	D4	QR705	H3
IC16	D2	IC501	F2	IC7	E4	Q25	C4	QR19	C3	QR36	D4	QR8	A1
IC19	E4	IC502	F2	IC705	H2	Q26	D4	QR20	B4	QR37	A3	QR9	A3
IC20	E4	IC506	E1	IC706	H2	Q29	C4	QR21	B3	QR38	A3		
IC25	B2	IC507	E1	IC707	H3	Q38	C3	QR22	B3	QR4	A2		
IC3	B2	IC508	D1	IC708	I2	Q5	E4	QR23	C3	QR41	A3		
IC30	D3	IC519	I1	IC709	I2	Q701	H4	QR24	C3	QR42	C3		
IC31	D3	IC520	H1	IC711	I3	Q702	H3	QR25	A4	QR5	A5		
IC32	C2	IC521	G1	IC712	I2	Q704	I4	QR26	A4	QR6	A5		
IC33	C2	IC522	G1	IC713	H2	Q705	I4	QR29	C3	QR7	A5		
IC34	A2	IC528	E3	IC715	G4	QR10	B3	QR3	B5	QR701	H4		

(FOIL SIDE)



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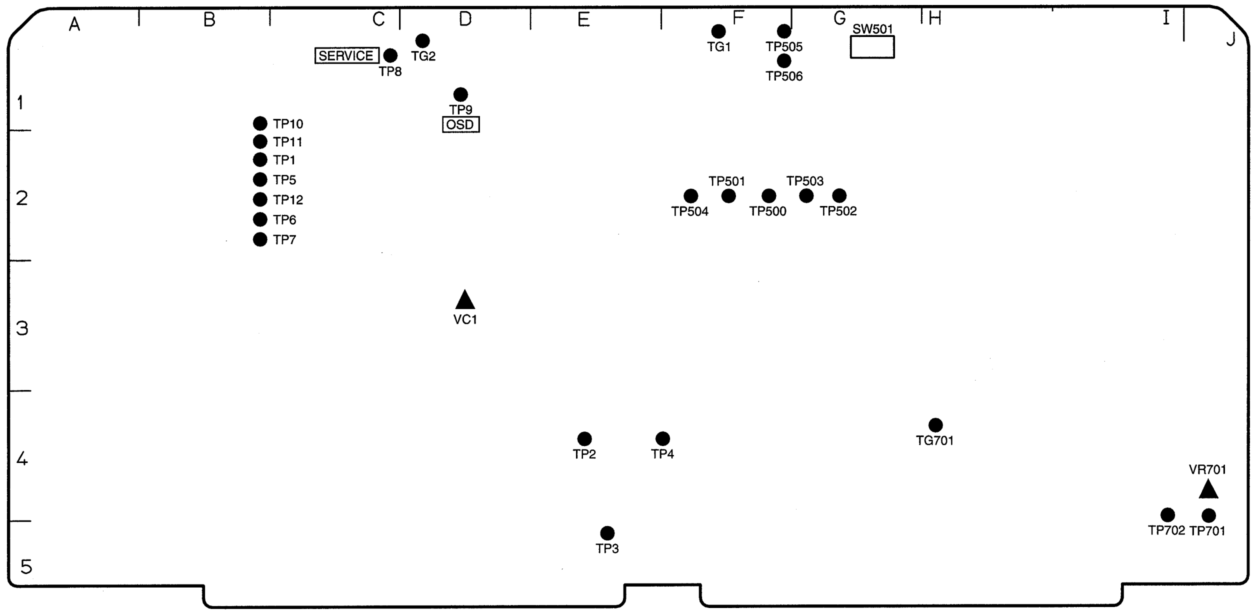
F2: SYSCON P.C. BOARD (VEP86146M: 450 (NTSC), VEP86146P: 440 (NTSC), VEP86146N: 450 (PAL), VEP86146Q: 440 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	C2	IC514	G3	IC722	I4	Q24	C4	QR15	C1	TP500	F2
IC13	D2	IC515	G4	IC725	H4	Q27	D4	QR16	B1	TP501	F2
IC15	E3	IC516	G4	IC726	H4	Q28	C4	QR27	C4	TP502	G2
IC17	A2	IC517	F1	IC8	D1	Q3	E3	QR28	C4	TP503	G2
IC2	A3	IC518	H1	IC9	C1	Q30	A4	QR31	B4	TP504	F2
IC23	E4	IC523	F1	P1	G5	Q31	A4	QR32	B4	TP505	F1
IC24	D2	IC524	E1	P2	D5	Q32	A4	QR39	A4	TP506	F1
IC26	B1	IC525	G1	P701	I1	Q33	A4	QR40	A4	TP6	B2
IC27	A5	IC527	F3	Q10	C4	Q34	A4	SW500	D1	TP7	B2
IC28	A3	IC6	C3	Q11	C4	Q35	A4	SW501	G1	TP701	J4
IC29	B1	IC701	H3	Q12	B4	Q36	A4	TG1	F1	TP702	J4
IC35	C1	IC702	H2	Q13	C4	Q37	A4	TG2	D1	TP8	C1
IC500	E2	IC703	I1	Q14	B4	Q39	D4	TG701	H4	TP9	D1
IC503	E3	IC704	H2	Q15	B4	Q4	D3	TP1	B2	VC1	D3
IC504	E2	IC710	I3	Q16	B4	Q6	C4	TP10	B1	VR701	J4
IC505	E1	IC714	G4	Q17	B4	Q7	C4	TP11	B2	X1	C3
IC509	G2	IC716	F4	Q18	B4	Q703	H3	TP12	B2	X500	E2
IC510	G3	IC717	G4	Q19	B4	Q8	B4	TP2	E4	X701	H2
IC511	F3	IC719	J4	Q20	B4	Q9	C4	TP3	E5	X702	I3
IC512	F4	IC720	J4	Q21	B4	QR13	C1	TP4	F4	X703	J2
IC513	G3	IC721	I3	Q23	D4	QR14	C1	TP5	B2		

(COMPONENT SIDE)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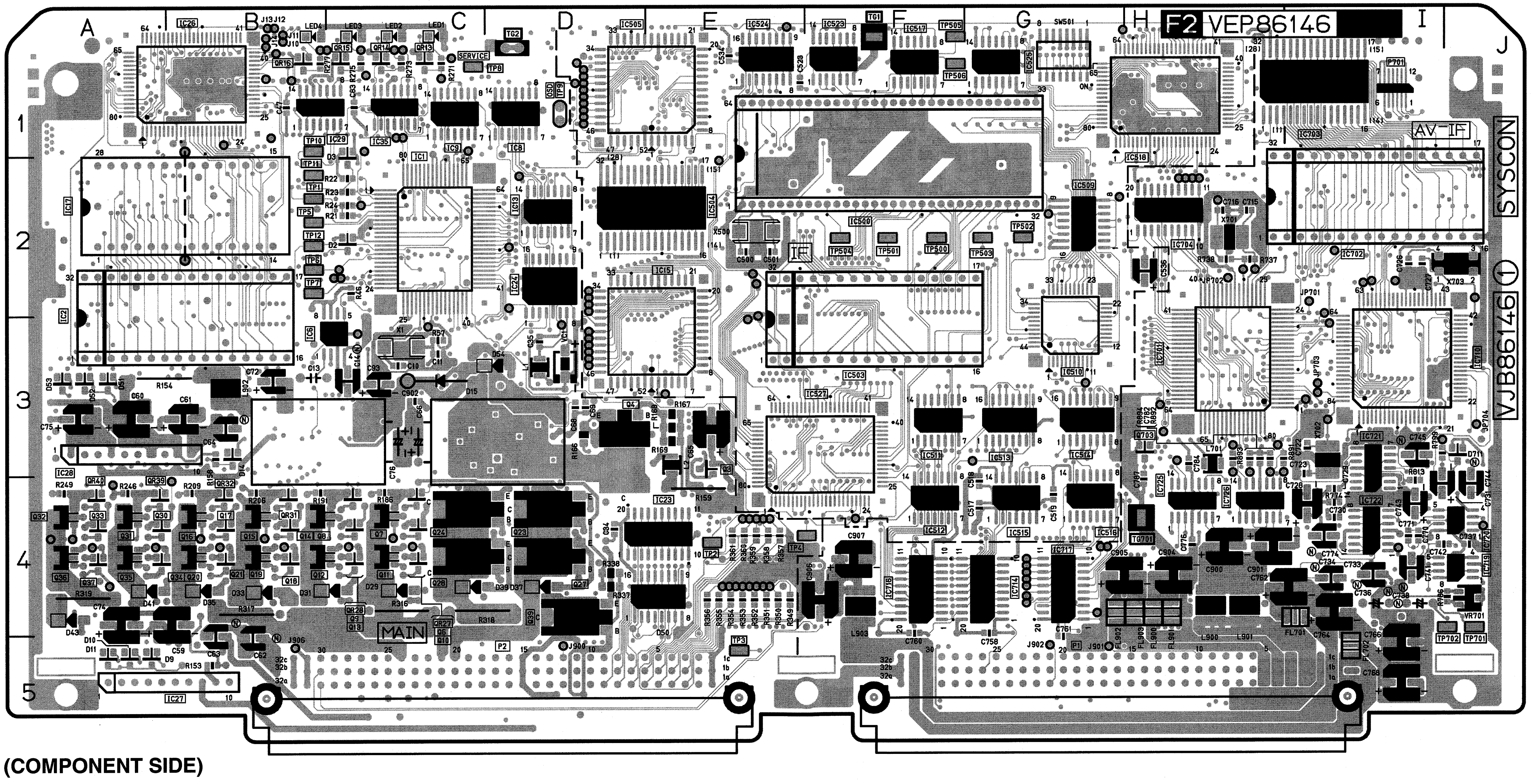
F2 VEP86146
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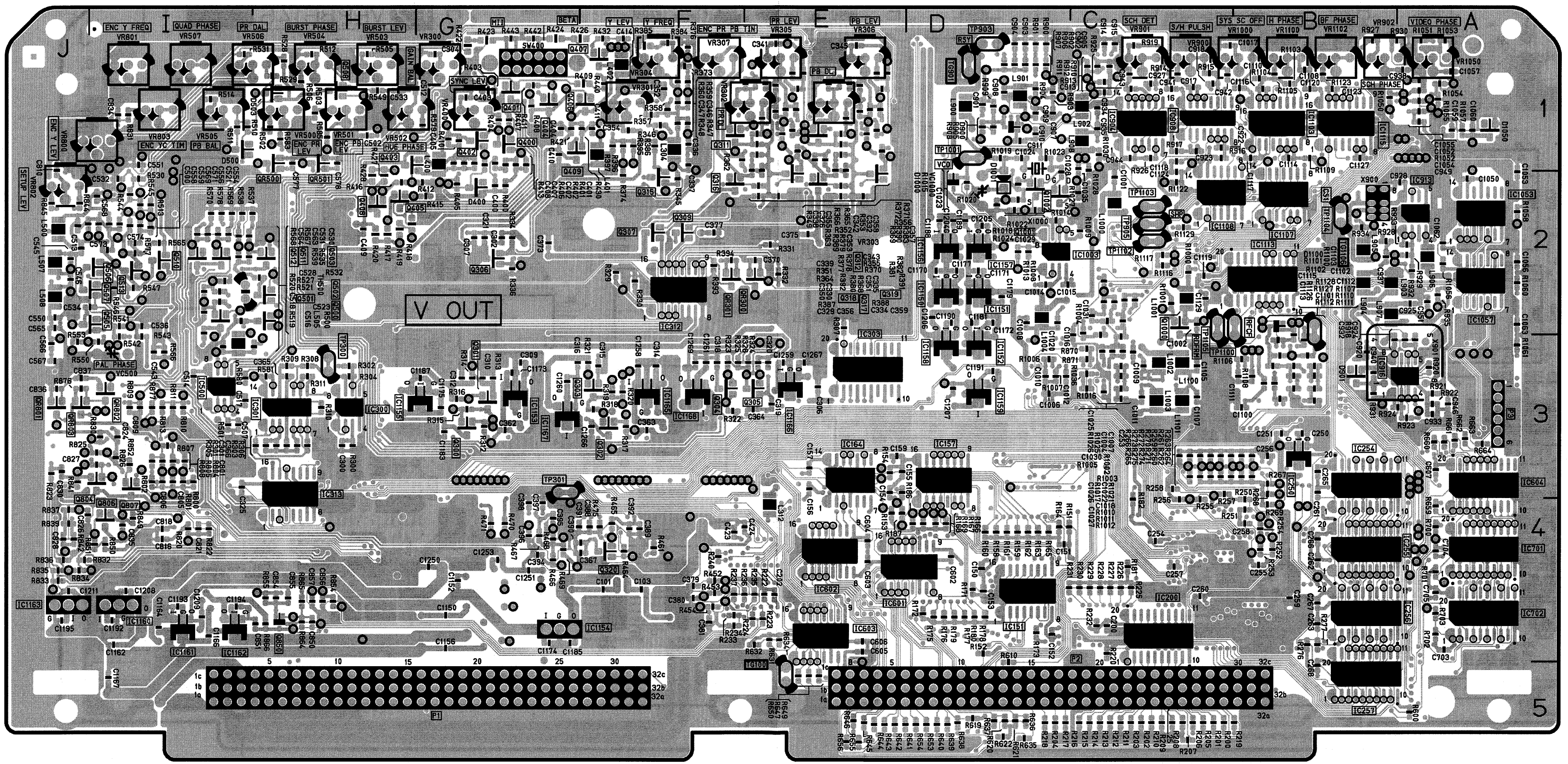
(COMPONENT SIDE)

F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1003	D2	IC1157	D2	IC254	B3	IC701	A4	Q305	E3	Q402	G1	Q507	I2	QR801	J3
IC1053	A2	IC1158	D3	IC255	B4	IC702	A4	Q306	G2	Q403	H1	Q508	H1	QR802	I3
IC1057	A2	IC1159	D3	IC256	B4	IC904	C1	Q307	F2	Q404	G1	Q510	I2	QR803	J3
IC1103	B1	IC1161	I4	IC257	B5	IC908	C1	Q309	F2	Q405	H2	Q511	I2		
IC1107	B2	IC1162	I4	IC300	H3	IC913	A2	Q311	F1	Q406	F1	Q512	I2		
IC1108	C2	IC1165	F3	IC301	H3	IC916	A3	Q312	E1	Q407	F1	Q513	I2		
IC1113	B2	IC1166	E3	IC303	E3	Q1000	C2	Q315	F2	Q408	H2	Q804	I3		
IC1115	B1	IC1167	G3	IC312	F2	Q1001	D2	Q316	F2	Q409	G1	Q806	I4		
IC1150	D2	IC1168	F3	IC313	H3	Q1002	D2	Q317	E2	Q500	H2	Q807	I3		
IC1151	D2	IC151	D4	IC500	I3	Q300	G3	Q318	E2	Q501	I2	Q850	H4		
IC1152	D3	IC157	D3	IC601	D4	Q301	G3	Q319	E2	Q502	H2	QR300	E2		
IC1153	G3	IC164	E3	IC602	E4	Q302	F3	Q320	F4	Q503	H2	QR301	F2		
IC1155	G3	IC200	C4	IC603	E4	Q303	F3	Q400	G1	Q505	I2	QR500	H1		
IC1156	D2	IC250	B3	IC604	A3	Q304	F3	Q401	G1	Q506	I2	QR501	H1		

(FOIL SIDE)



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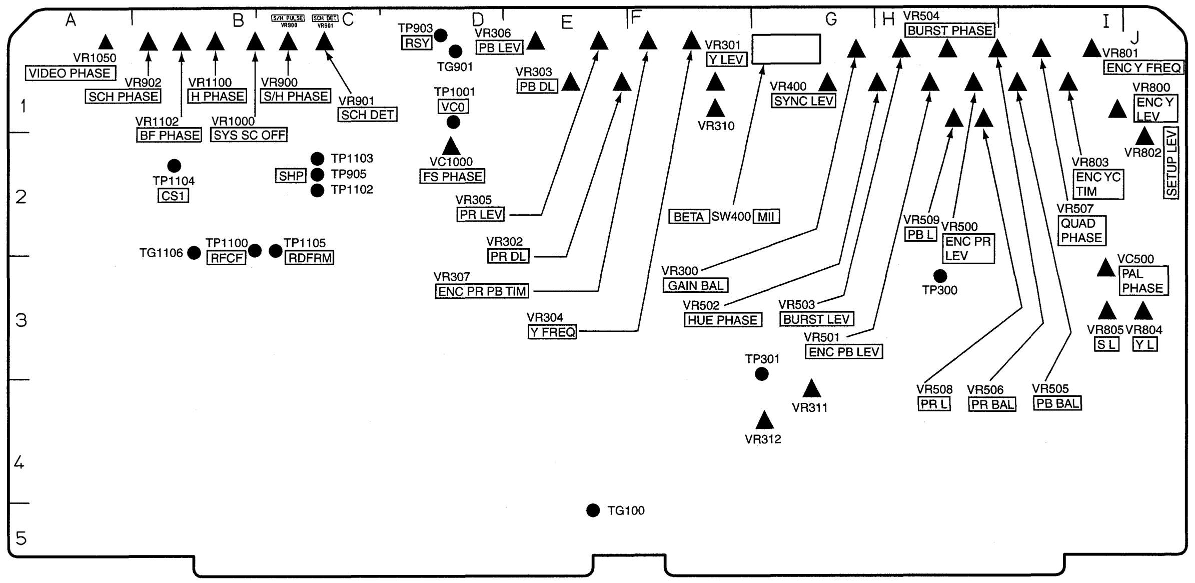
(FOIL SIDE)

F4: V OUT P.C. BOARD (VEP83352A: Japan only, VEP83352C: NTSC, VEP83352B: PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1000	C2	IC153	D4	IC314	F4	P1	G5	SW400	G1	VR300	G1	VR508	H1
IC1001	D3	IC154	D4	IC315	G4	P2	D5	TG100	E5	VR301	F1	VR509	H1
IC1002	C2	IC156	E3	IC316	E4	P3	A3	TG1106	B3	VR302	E1	VR800	I1
IC1004	C3	IC158	C4	IC502	I2	Q308	F1	TG901	D1	VR303	E1	VR801	I1
IC1005	C3	IC159	D3	IC503	I2	Q310	E1	TP1001	D1	VR304	F1	VR802	J2
IC1015	C2	IC160	C3	IC600	B5	Q313	E2	TP1100	B2	VR305	E1	VR803	I1
IC1051	A1	IC161	E4	IC700	A4	Q314	E2	TP1102	C2	VR306	E1	VR804	J3
IC1055	A2	IC163	D3	IC800	I3	Q410	F1	TP1103	C2	VR307	F1	VR805	I3
IC1056	A2	IC201	C4	IC801	I3	Q504	I2	TP1104	B2	VR310	F1	VR900	C1
IC1058	A3	IC202	E4	IC802	I4	Q509	I3	TP1105	C2	VR311	G4	VR901	C1
IC1100	B3	IC203	D4	IC805	J3	Q514	I2	TP300	H3	VR312	G4	VR902	B1
IC1102	B3	IC251	C4	IC850	H4	Q800	I4	TP301	G3	VR400	G1	X1000	D2
IC1106	B2	IC252	B4	IC900	D1	Q801	I4	TP903	D1	VR500	H1	X1050	A1
IC1114	B1	IC253	C4	IC902	C1	Q802	I3	TP905	C2	VR501	H1	X900	A2
IC1116	B1	IC306	G3	IC909	C1	Q803	I3	VC1000	D2	VR502	H1	X901	B3
IC1154	G4	IC307	F3	IC910	A1	Q851	H4	VC500	I3	VR503	H1		
IC1160	I4	IC308	F3	IC915	C1	QR1	I4	VR1000	B1	VR504	H1		
IC1163	J4	IC309	F1	IC923	B2	QR200	D3	VR1050	A1	VR505	I1		
IC150	D4	IC310	E1	IC924	A2	QR201	D3	VR1100	B1	VR506	I1		
IC152	D4	IC311	E1	IC925	A2	QR202	D3	VR1102	B1	VR507	I1		

(COMPONENT SIDE)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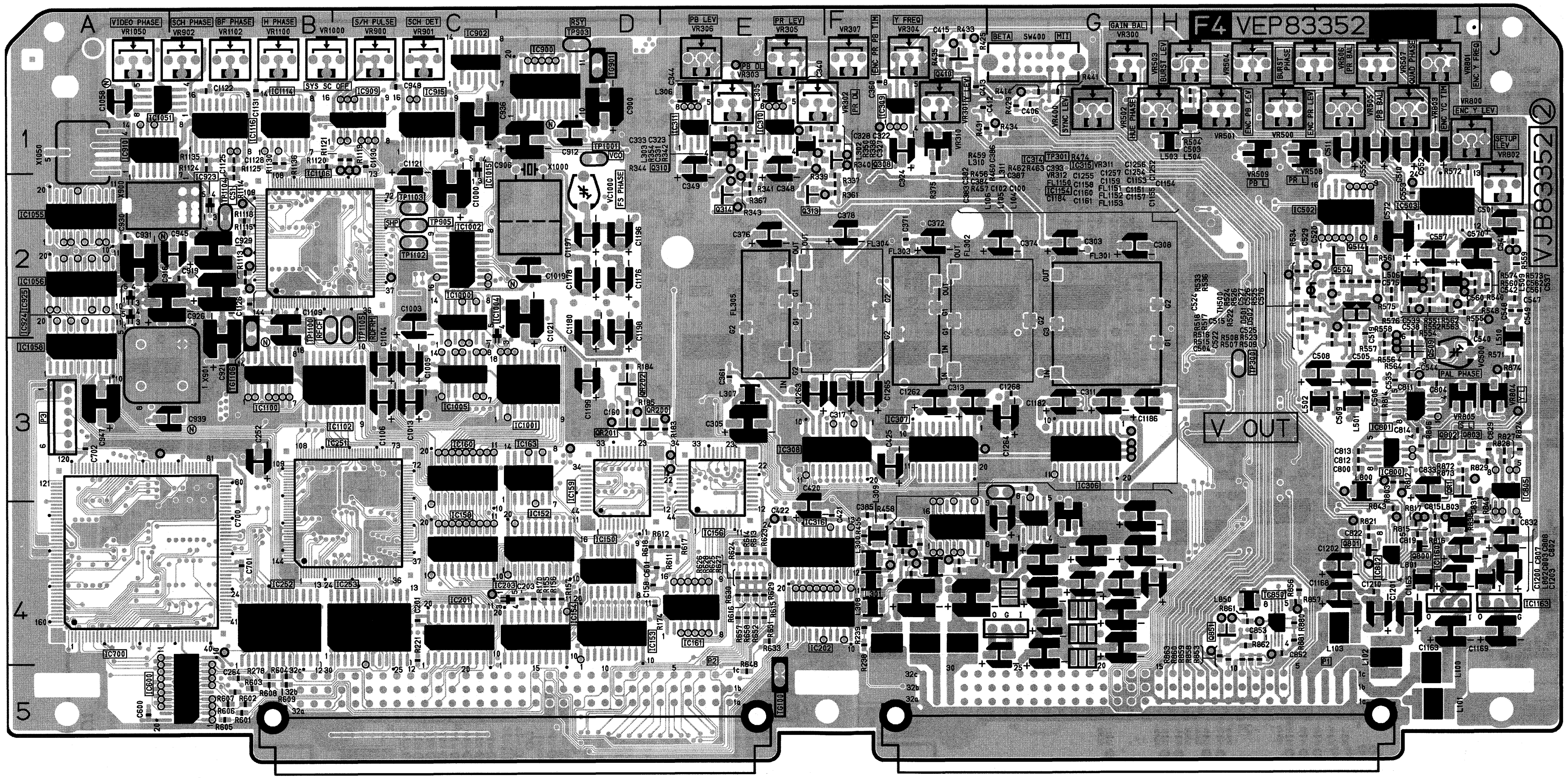
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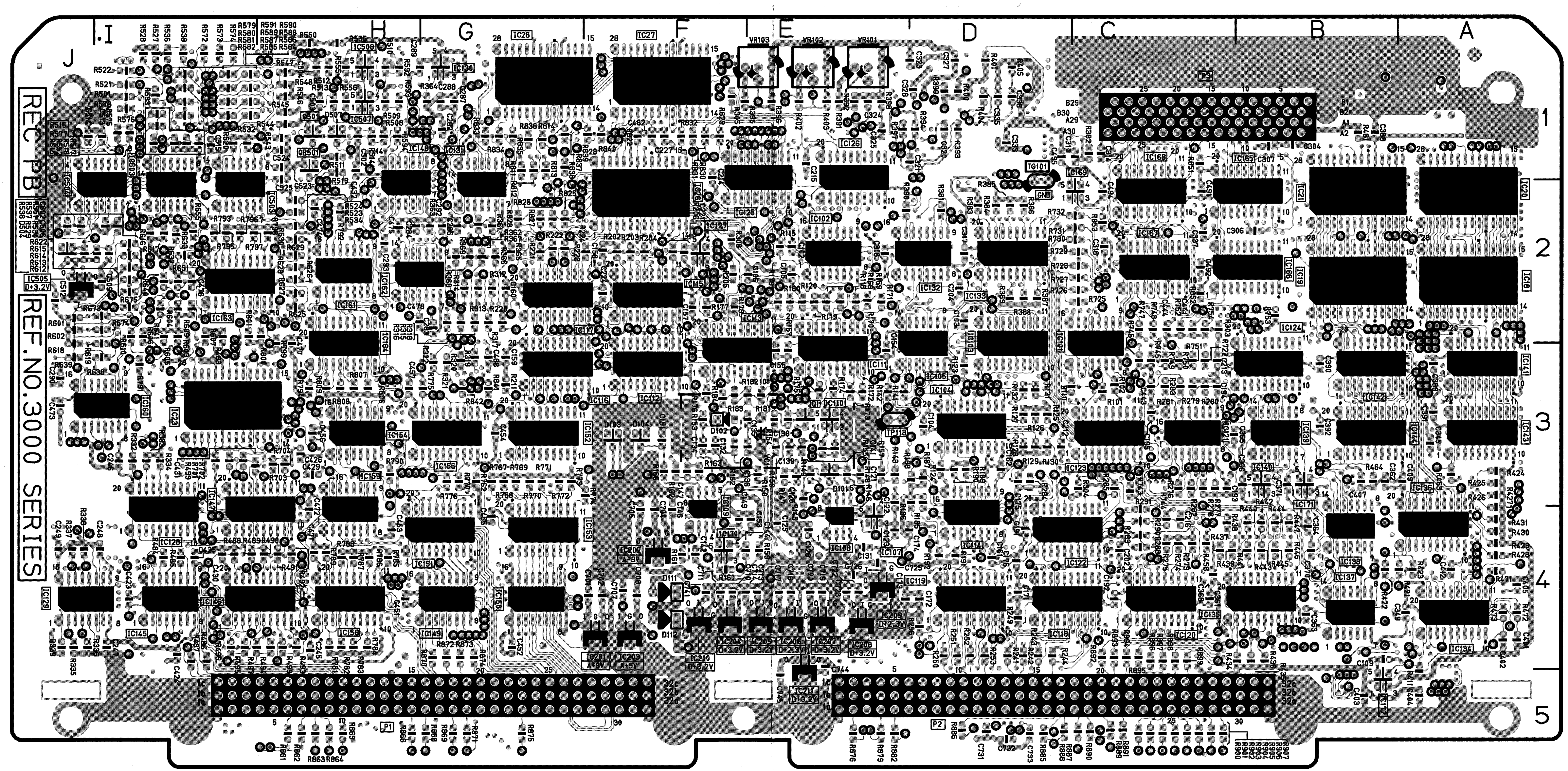
(COMPONENT SIDE)

F5: REC PB P.C. BOARD (VEP83353D: NTSC, VEP83353E: PAL)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC101	C3	IC116	G3	IC130	G1	IC144	B3	IC160	I3	IC19	B2	IC23	I3
IC102	E2	IC117	G2	IC131	G2	IC145	I4	IC161	H2	IC20	A2	IC26	F2
IC103	D3	IC118	D4	IC132	D2	IC146	H4	IC162	H2	IC201	F4	IC27	F1
IC104	D3	IC119	D4	IC133	D2	IC147	H4	IC163	I2	IC202	F4	IC28	G1
IC105	D3	IC120	C4	IC134	A4	IC148	H2	IC164	H3	IC203	F4	IC503	I2
IC107	E4	IC121	C3	IC135	B4	IC149	G4	IC165	B2	IC204	F4	IC504	I2
IC108	E4	IC122	D4	IC136	A4	IC150	G4	IC166	B2	IC205	E4	IC505	J2
IC109	F4	IC123	C3	IC137	B4	IC151	G4	IC167	C2	IC206	E4	IC507	H1
IC110	E3	IC124	B3	IC138	B4	IC152	G3	IC168	C2	IC207	E4	IC508	H1
IC111	E3	IC125	E2	IC139	B3	IC153	G4	IC169	C2	IC208	E4	IC603	I2
IC112	F3	IC126	E2	IC140	B3	IC154	H3	IC170	F4	IC209	E4	Q1	E3
IC113	F3	IC127	F2	IC141	A3	IC156	G3	IC171	B3	IC21	B2	Q501	H1
IC114	D4	IC128	I4	IC142	B3	IC158	H4	IC172	B5	IC210	F4	QR501	H1
IC115	F2	IC129	J4	IC143	A3	IC159	H4	IC18	A2	IC211	E5		

(FOIL SIDE)



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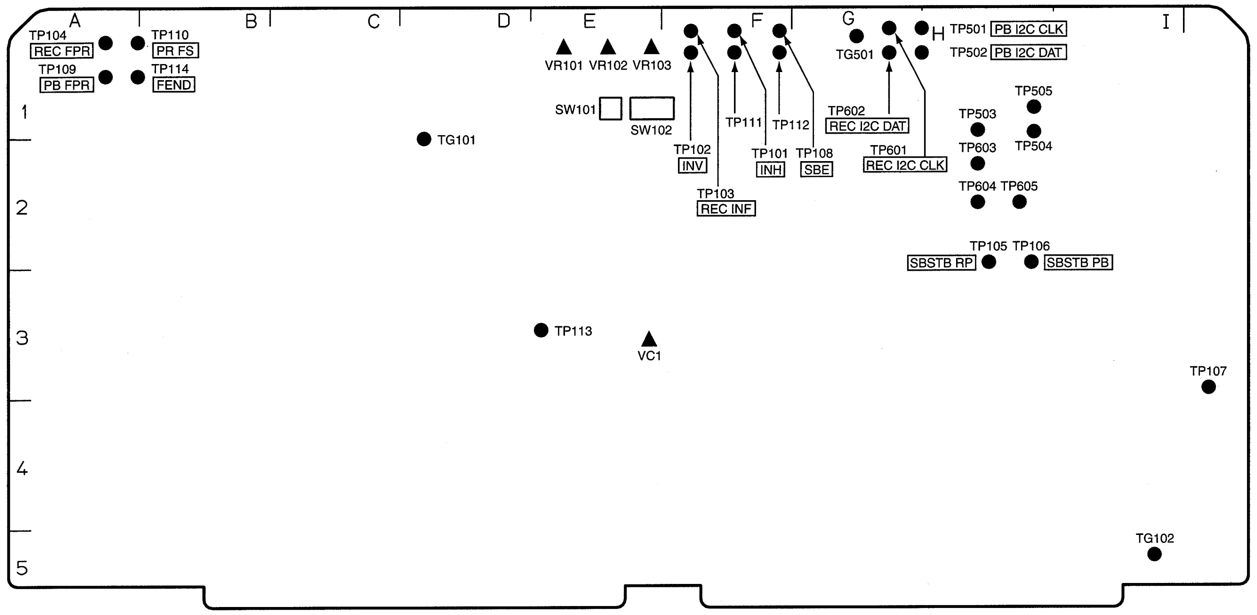
F5: REC PB P.C. BOARD (VEP83353D: NTSC, VEP83353E: PAL)

REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC1	E2	IC30	G3	IC8	F1	TP105	H2	TP505	H1
IC10	I4	IC31	C4	IC9	H4	TP106	H2	TP601	G1
IC11	G2	IC32	I3	P1	G5	TP107	J3	TP602	G1
IC12	G1	IC34	G3	P2	D5	TP108	F1	TP603	H2
IC13	B2	IC35	A4	P3	C1	TP109	A1	TP604	H2
IC14	C2	IC36	B5	SW101	E1	TP110	A1	TP605	H2
IC15	D1	IC37	A5	SW102	E1	TP111	F1	VC1	E3
IC157	H3	IC4	D3	TG101	D2	TP112	F1	VR101	E1
IC16	A3	IC5	D2	TG102	I5	TP113	E3	VR102	E1
IC17	A2	IC501	I1	TG501	G1	TP114	A1	VR103	E1
IC22	H3	IC502	J2	TP101	F1	TP501	H1	X102	F3
IC24	C3	IC6	C4	TP102	F1	TP502	H1	X103	I3
IC25	G4	IC601	I2	TP103	F1	TP503	H1	X501	J1
IC3	D4	IC7	F2	TP104	A1	TP504	H1		

(COMPONENT SIDE)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TP104
REC FPR
TP110
PR FS
TP109
PB FPR
TP114
FEND
VR101
VR102
VR103
SW101
SW102
TG101
TP102
INV
TP103
REC INF
TP111
TP101
INH
TP112
TP108
SBE
TG501
TP602
REC I2C DAT
TP601
REC I2C CLK
TP501
PB I2C CLK
TP502
PB I2C DAT
TP505
TP503
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TP504
TP604
TP605
TP105
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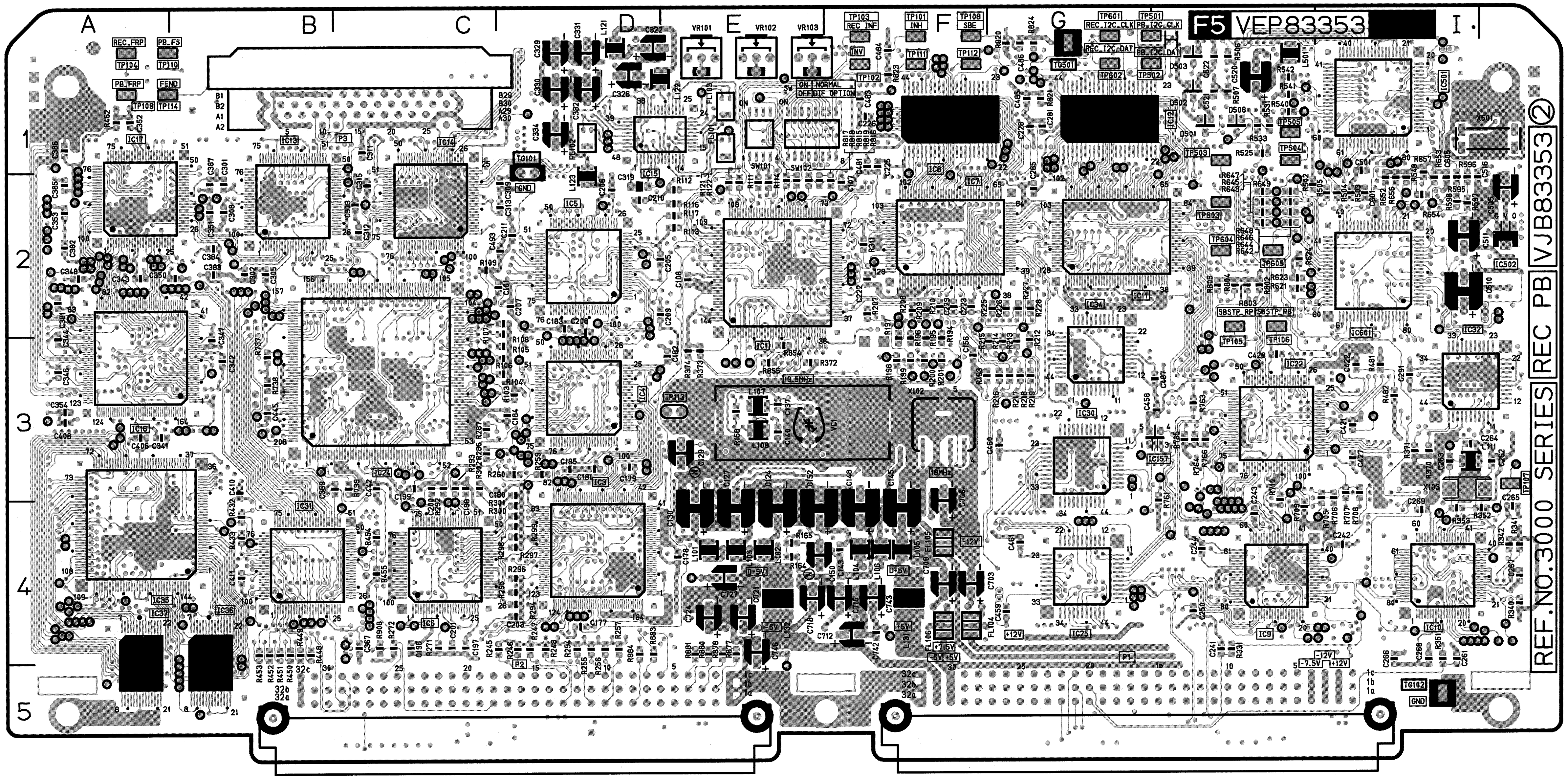
TP106
SBSTB PB
TP113
VC1
TP107
TG102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F5 VEP83353
VJB83353 ②
REC PB
REF. NO. 3000 SERIES
REC_FRP
TP104
PB_FS
TP110
PB_FRP
TP109
FEND
TP114
VR101
VR102
VR103
TP103
REC_INF
TP101
INH
TP108
SBE
TP601
REC_I2C_CLK
TP501
PB_I2C_CLK
REC_I2C_DAT
PB_I2C_DAT
TP502
TG501
TP111
TP112
TP102
INV
TG101
GND
TP113
TG102
GND
ON NORMAL
OFF DIF OPTION
SW101
SW102
IC1
IC3
IC4
IC5
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IC7
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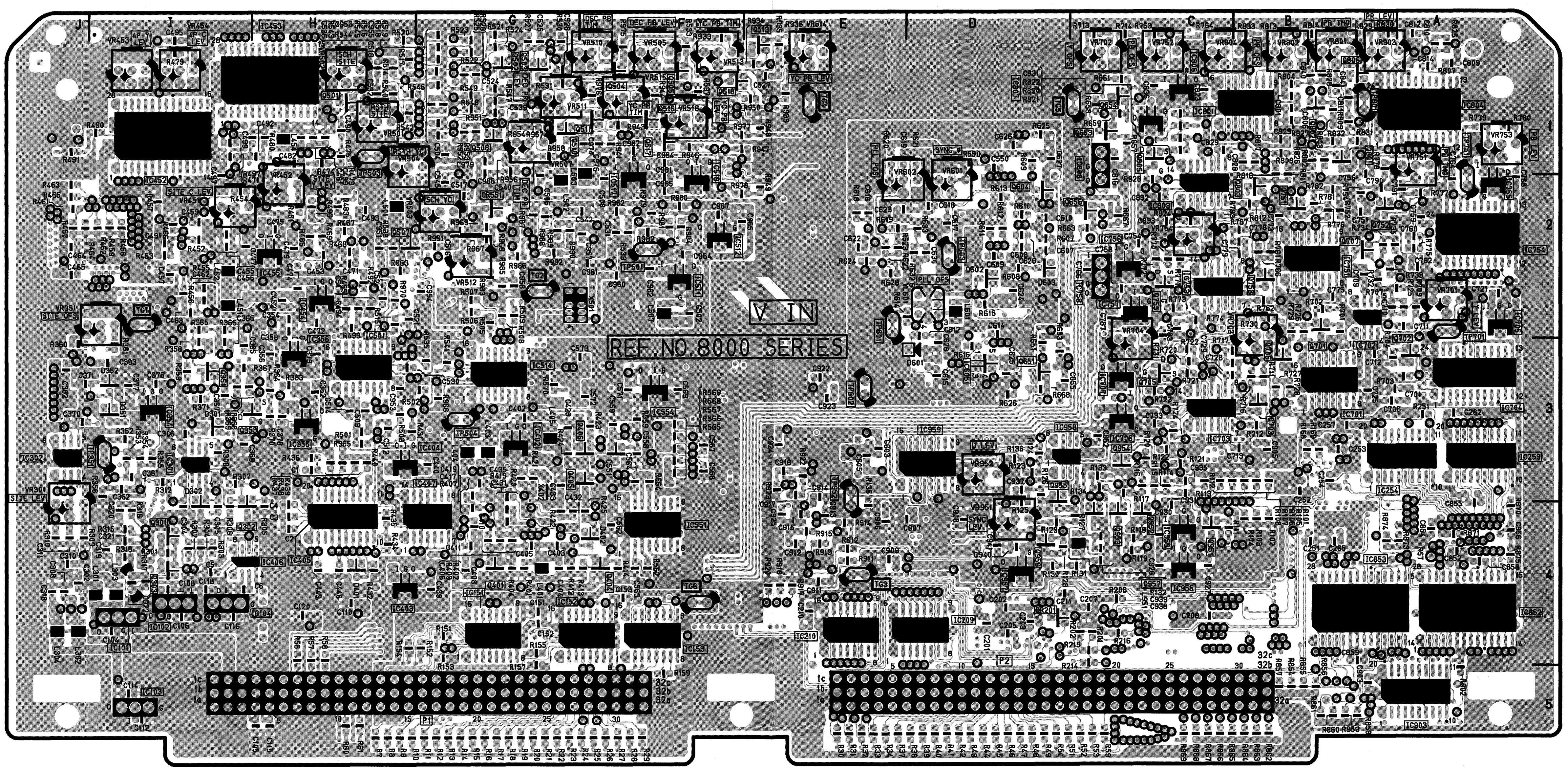
IC36
IC37
IC157
IC501
IC502
IC601
TP503
TP504
TP505
TP603
TP604
TP605
TP105
TP106
TP107
SBSTP_RP
SBSTP_PB
X102
X103
X501
VC1
13.5MHz
18MHz
P1
P2
P3
-12V
+12V
-5V
+5V
+7.5V
-7.5V
D-5V
D5V

(COMPONENT SIDE)

F6: V IN P.C. BOARD (VEP83397B: 450 (NTSC), VEP83397A: Japan only)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC
IC404	H3	IC151	G4	IC551	F4	IC756	C2	IC959	D3	Q505	F1	Q701	B2	Q806	B1
IC405	H4	IC152	F4	IC554	F3	IC757	C2	Q301	I4	Q507	H2	Q702	A3	Q951	C4
IC406	I4	IC153	F4	IC605	D3	IC801	B1	Q302	I4	Q508	G1	Q703	B3	Q952	C4
IC407	G4	IC209	D4	IC701	B3	IC803	C2	Q303	I4	Q510	G1	Q705	C3	Q953	C4
IC452	I1	IC210	E4	IC702	B2	IC804	A1	Q351	I3	Q511	F1	Q706	B3	Q954	C3
IC453	H1	IC254	A3	IC703	C3	IC806	C1	Q353	H3	Q513	E1	Q707	B2	Q955	D3
IC454	H2	IC259	A3	IC704	A3	IC807	C1	Q401	G4	Q516	F1	Q751	B2	Q956	D4
IC455	H2	IC301	I3	IC705	A2	IC852	A4	Q404	F4	Q517	F1	Q752	B2	Q957	C4
IC501	H3	IC302	J3	IC706	C3	IC853	B4	Q405	F3	Q518	F1	Q753	B2	QR201	D4
IC511	F2	IC354	I3	IC707	C3	IC903	A5	Q406	F3	Q604	D2	Q755	C2	QR551	G2
IC512	F2	IC355	H3	IC751	B2	IC955	C4	Q501	H1	Q651	D3	Q801	B1		
IC514	G3	IC356	H3	IC753	C2	IC956	C4	Q502	G1	Q653	C1	Q802	B1		
IC517	F1	IC402	G3	IC754	A2	IC957	D4	Q503	G1	Q654	C1	Q803	B2		
IC518	F2	IC403	H4	IC755	A2	IC958	D3	Q504	F1	Q656	C2	Q805	C1		

(FOIL SIDE)

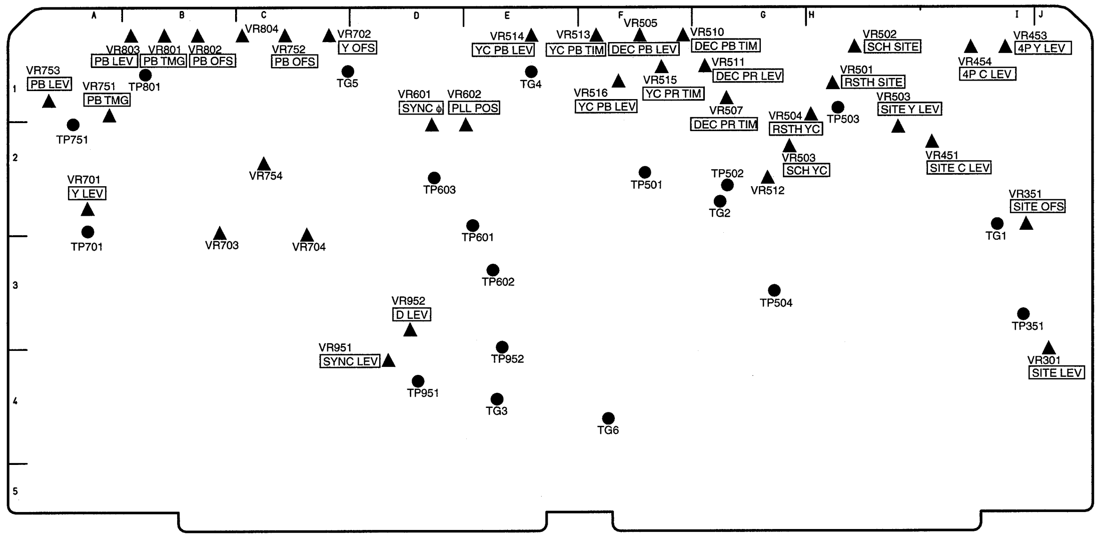


(FOIL SIDE)

F6: V IN P.C. BOARD (VEP83397B: 450 (NTSC), VEP83397A: Japan only)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC	REC	LOC
IC101	I4	IC451	I2	IC602	D2	IC953	D4	Q756	A1	TP701	A2	VR512	G2	VR952	D3
IC102	I4	IC456	I1	IC603	E2	IC954	C4	Q804	B1	TP751	A2	VR513	F1	X402	G3
IC103	I5	IC457	H2	IC604	D3	P1	G5	QR701	C3	TP801	B1	VR514	E1	X501	F2
IC104	I4	IC458	H2	IC606	D2	P2	D5	QR702	C2	TP951	D4	VR515	F1		
IC154	E4	IC459	I1	IC607	D3	Q352	H3	QR751	C2	TP952	E3	VR516	F1		
IC156	F4	IC502	H3	IC608	D1	Q452	I1	QR801	C1	VL601	D2	VR601	D2		
IC201	D4	IC503	G3	IC752	A2	Q454	H1	TG1	I2	VR301	J3	VR602	E2		
IC204	D4	IC504	G1	IC758	C2	Q509	G1	TG2	G2	VR351	I2	VR701	A2		
IC207	C4	IC505	G1	IC759	A2	Q512	F1	TG3	E4	VR451	I2	VR702	C1		
IC208	C4	IC507	F2	IC802	A1	Q514	E1	TG4	E1	VR452	H2	VR703	B2		
IC251	B3	IC508	G2	IC805	A1	Q515	G1	TG5	C1	VR453	I1	VR704	C2		
IC252	B4	IC509	F2	IC808	C1	Q601	D2	TG6	F4	VR454	I1	VR751	A1		
IC253	A3	IC510	G2	IC851	A4	Q602	D2	TP351	I3	VR501	H1	VR752	C1		
IC255	A3	IC513	H2	IC901	B5	Q603	D2	TP501	F2	VR502	H1	VR753	A1		
IC303	I4	IC515	F1	IC902	A5	Q652	C3	TP502	G2	VR503	G2	VR754	C2		
IC351	I3	IC516	F1	IC911	E4	Q655	C1	TP503	H1	VR504	H1	VR801	B1		
IC352	I3	IC552	F3	IC912	E4	Q657	C2	TP504	G3	VR505	F1	VR802	B1		
IC353	J3	IC553	F4	IC913	E3	Q658	C2	TP601	E2	VR507	G1	VR803	B1		
IC401	G3	IC555	F3	IC951	C3	Q704	C3	TP602	E3	VR510	F1	VR804	C1		
IC450	H2	IC601	D2	IC952	D4	Q754	B2	TP603	D2	VR511	G1	VR951	D4		

(COMPONENT SIDE)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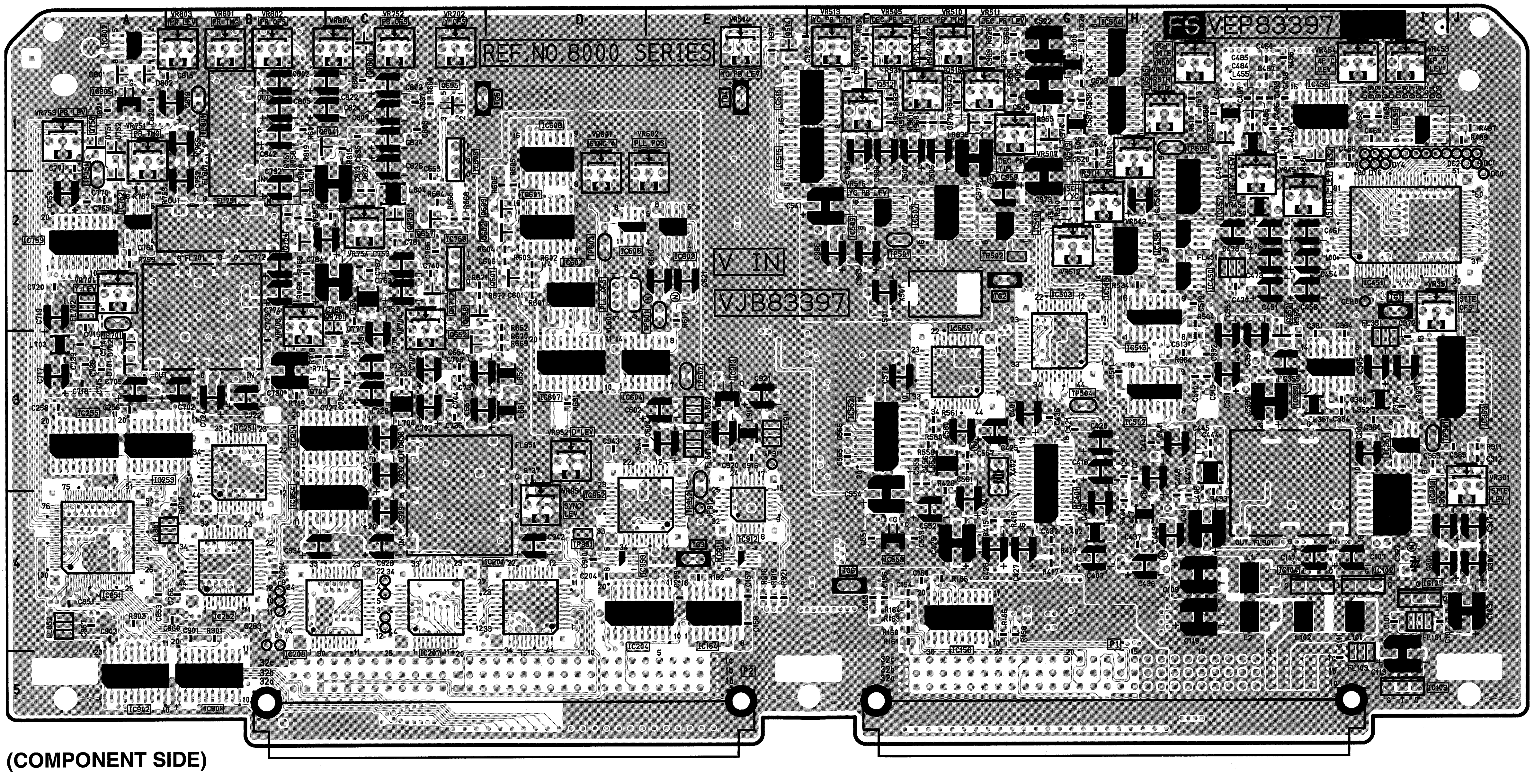
VR753 PB LEV
VR803 PB LEV
VR801 PB TMG
VR802 PB OFS
VR804
VR752 PB OFS
VR702 Y OFS
VR751 PB TMG
TP801
TP751
TG5
VR514 YC PB LEV
VR513 YC PB TIM
VR505 DEC PB LEV
VR510 DEC PB TIM
VR511 DEC PR LEV
VR515 YC PR TIM
VR516 YC PB LEV
VR507 DEC PR TIM
TG4
VR601 SYNC ϕ
VR602 PLL POS
VR502 SCH SITE
VR501 RSTH SITE
VR503 SITE Y LEV
VR504 RSTH YC
VR503 SCH YC
TP503
VR454 4P C LEV
VR453 4P Y LEV
VR451 SITE C LEV
VR701 Y LEV
VR754
TP603
TP501
TP502
TG2
VR512
VR351 SITE OFS
TG1
TP701
VR703
VR704
TP601
TP602
TP504
TP351
VR952 D LEV
VR951 SYNC LEV
TP952
TP951
TG3
TG6
VR301 SITE LEV


F6 VEP83397
REF.NO.8000 SERIES
V IN
VJB83397
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VR803 PB LEV
VR801 PB TMG
VR802 PB OFS
VR804
VR752 PB OFS
VR702 Y OFS
VR514 YC PB LEV
VR513 YC PB TIM
VR505 DEC PB LEV
VR510 DEC PB TIM
VR511 DEC PR LEV
VR753 PB LEV
VR751 PB TMG
VR601 SYNC ϕ
VR602 PLL POS
VR454 4P C LEV
VR453 4P Y LEV
VR351 SITE OFS
VR301 SITE LEV
VR952 D LEV
VR951 SYNC LEV
IC759
IC255
IC251
IC253
IC851
IC252
IC902
IC901
IC201
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IC204
IC154
IC156
IC608
IC601
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IC604
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IC503
IC502
IC451
IC456
IC104
IC102
IC103
IC101
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TP501
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TP503
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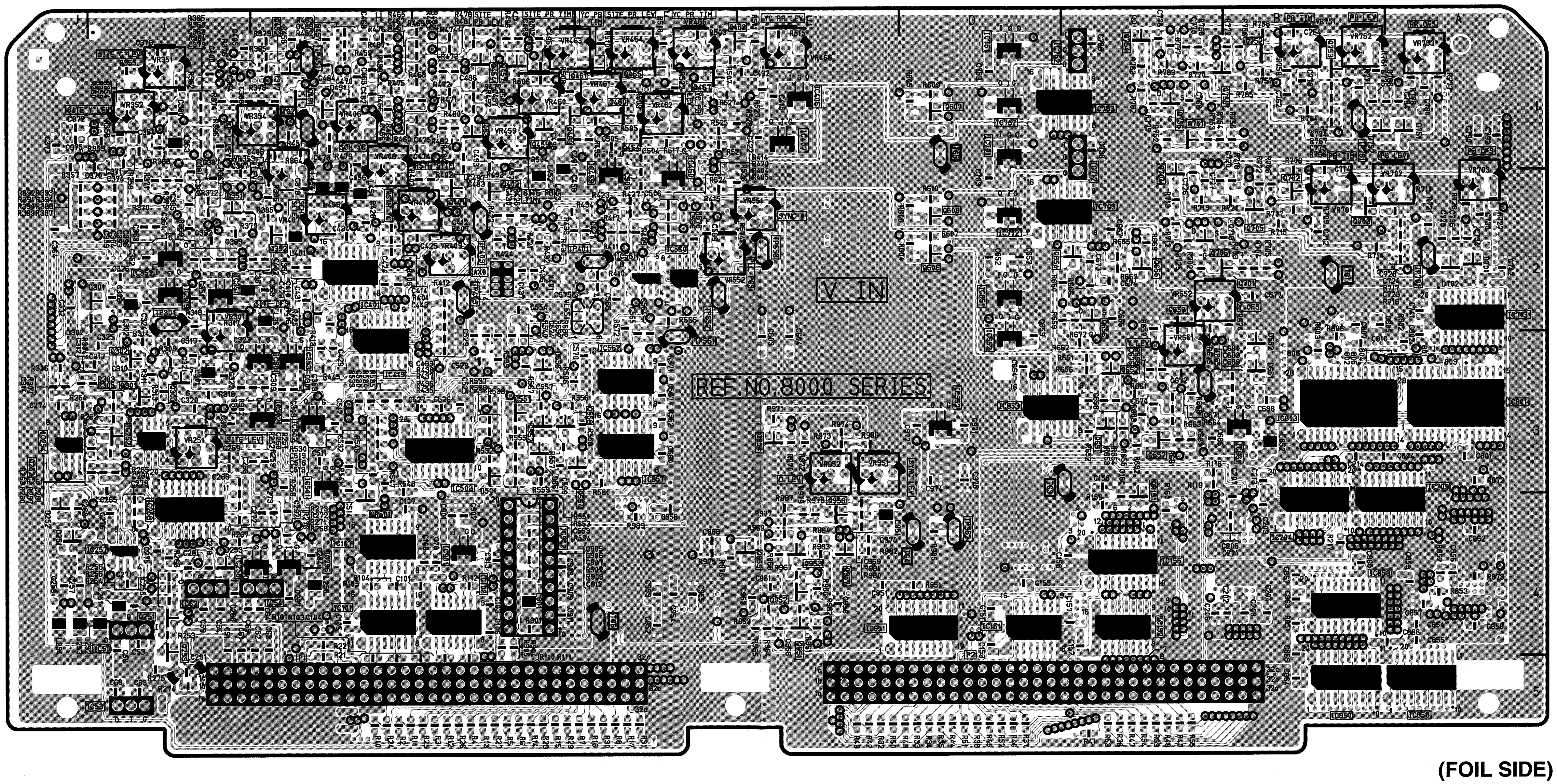
FL751
FL701
FL951
FL301
FL101
FL103

(COMPONENT SIDE)

F6: V IN P.C. BOARD (VEP83398A: 450 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC101	H4	IC301	H3	IC503	G3	IC752	D1	Q302	I3	Q462	F1	Q653	C2	Q754	C1
IC103	G4	IC302	H3	IC557	F3	IC753	C1	Q303	I3	Q463	G1	Q654	C2	Q755	C1
IC107	H4	IC309	I2	IC560	F2	IC801	A3	Q351	I2	Q464	F1	Q655	C2	Q756	C1
IC151	D4	IC351	I2	IC561	F2	IC803	B3	Q352	H2	Q465	F1	Q656	C2	Q951	E4
IC152	C4	IC352	I2	IC562	F3	IC853	B4	Q401	G2	Q467	F1	Q657	C3	Q952	E4
IC156	C4	IC353	H3	IC651	D2	IC857	B5	Q402	G2	Q551	G3	Q701	C2	Q953	E4
IC204	B4	IC401	H2	IC652	D3	IC858	A5	Q451	H1	Q552	G3	Q702	B2	Q954	E3
IC205	A4	IC406	E1	IC653	D3	IC901	G4	Q452	H1	Q553	G3	Q703	B2	Q955	E4
IC252	I3	IC407	E1	IC661	B3	IC951	D4	Q453	G1	Q554	G3	Q704	C2	Q956	E4
IC254	J3	IC419	H3	IC701	D1	IC957	D3	Q454	G1	Q606	D2	Q705	B2	Q957	E4
IC255	H4	IC459	F2	IC702	D2	Q251	I4	Q457	G1	Q607	D1	Q706	C2	QR151	C4
IC256	H4	IC460	F2	IC703	C2	Q252	I3	Q459	G1	Q608	D2	Q751	C1	QR501	H4
IC257	I4	IC501	H3	IC713	A2	Q253	I4	Q460	F1	Q651	C3	Q752	B1		
IC258	I4	IC502	H3	IC751	D1	Q301	I3	Q461	F1	Q652	C3	Q753	B1		

(FOIL SIDE)

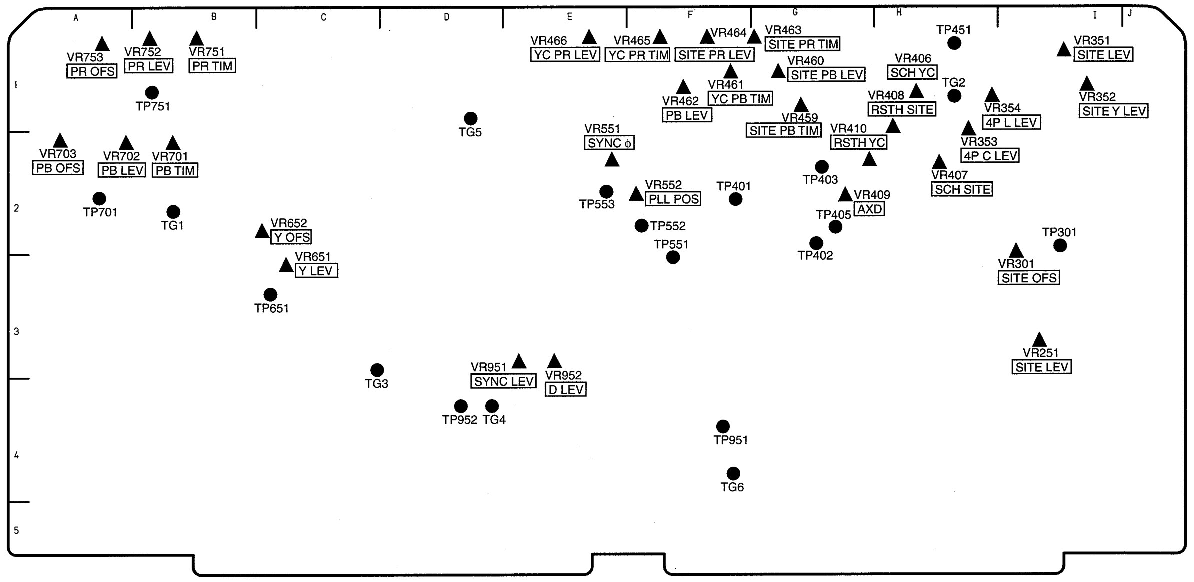


(FOIL SIDE)

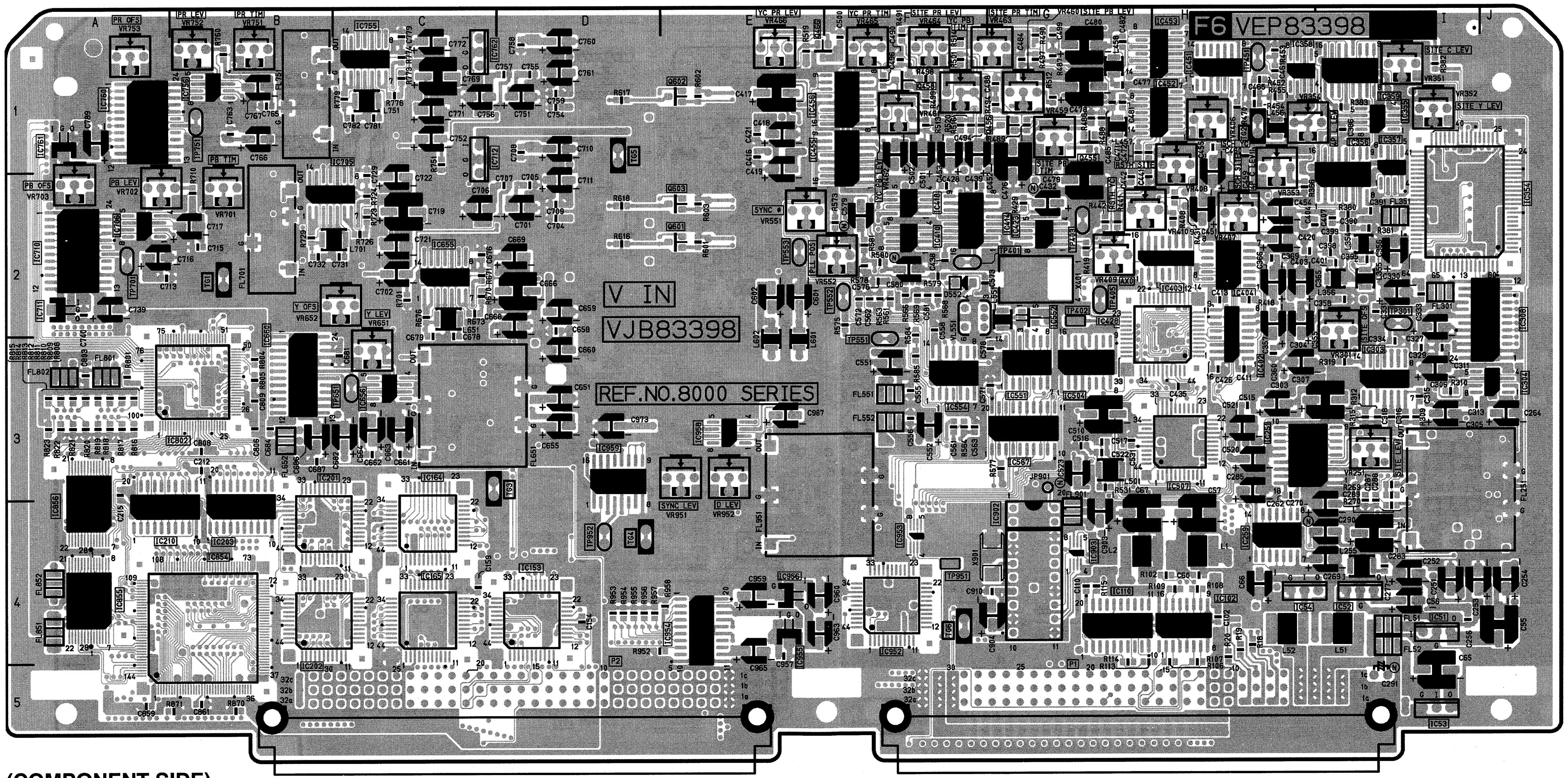
F6: V IN P.C. BOARD (VEP83398A: 450 (PAL))

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REC	LOC
IC102	H4	IC402	H2	IC552	G2	IC902	G4	TG3	C3	VR351	I1	VR652	C2
IC110	G4	IC403	H2	IC554	F3	IC903	G4	TG4	D4	VR352	I1	VR701	B2
IC153	D4	IC404	H2	IC567	G3	IC952	F4	TG5	D1	VR353	H1	VR702	A2
IC164	C4	IC410	F2	IC655	C2	IC953	F4	TG6	F4	VR354	H1	VR703	A2
IC165	C4	IC414	F2	IC656	C3	IC954	E4	TP301	I2	VR406	H1	VR751	B1
IC201	B4	IC418	F2	IC660	B3	IC955	E4	TP401	F2	VR407	H2	VR752	B1
IC202	B4	IC423	G2	IC705	B2	IC956	E4	TP402	G2	VR408	H1	VR753	A1
IC203	B4	IC428	H2	IC706	A2	IC958	E3	TP403	G2	VR409	G2	VR951	E3
IC210	A4	IC451	H1	IC710	A2	IC959	D3	TP405	G2	VR410	G2	VR952	E3
IC251	H3	IC452	H1	IC711	A2	P1	G5	TP451	H1	VR459	G1	X401	G2
IC259	H4	IC453	H1	IC712	C1	P2	D5	TP551	F3	VR460	G1	X901	G4
IC303	I3	IC455	F1	IC755	C1	Q455	G1	TP552	F2	VR461	F1		
IC304	J3	IC456	F1	IC756	B1	Q456	G1	TP553	E2	VR462	F1		
IC308	J2	IC504	G3	IC760	A1	Q458	F1	TP651	C3	VR463	G1		
IC354	I2	IC507	H3	IC761	A1	Q466	E1	TP701	A2	VR464	F1		
IC355	I1	IC51	I4	IC762	C1	Q601	E2	TP751	B1	VR465	F1		
IC356	I2	IC52	I4	IC802	B3	Q602	E1	TP951	F4	VR466	E1		
IC357	I1	IC53	I5	IC854	B4	Q603	E2	TP952	D4	VR551	E2		
IC358	H1	IC54	H4	IC855	A4	TG1	B2	VR251	I3	VR552	F2		
IC359	I1	IC551	G3	IC856	A3	TG2	H1	VR301	I2	VR651	C3		

(COMPONENT SIDE)



VR753 PR OFS
VR752 PR LEV
VR751 PR TIM
TP751
VR703 PB OFS
VR702 PB LEV
VR701 PB TIM
TP701
TG1
VR652 Y OFS
VR651 Y LEV
TP651
TG5
TG3
VR951 SYNC LEV
VR952 D LEV
TP952
TG4
VR466 YC PR LEV
VR465 YC PR TIM
VR464 SITE PR LEV
VR463 SITE PR TIM
VR462 PB LEV
VR461 YC PB TIM
VR460 SITE PB LEV
VR459 SITE PB TIM
VR551 SYNC ϕ
VR552 PLL POS
TP553
TP552
TP551
TP401
TP403
TP405
TP402
VR410 RSTH YC
VR409 AXD
VR408 RSTH SITE
VR406 SCH YC
TG2
TP451
VR354 4P L LEV
VR353 4P C LEV
VR407 SCH SITE
VR351 SITE LEV
VR352 SITE Y LEV
TP301
VR301 SITE OFS
VR251 SITE LEV
TP951
TG6



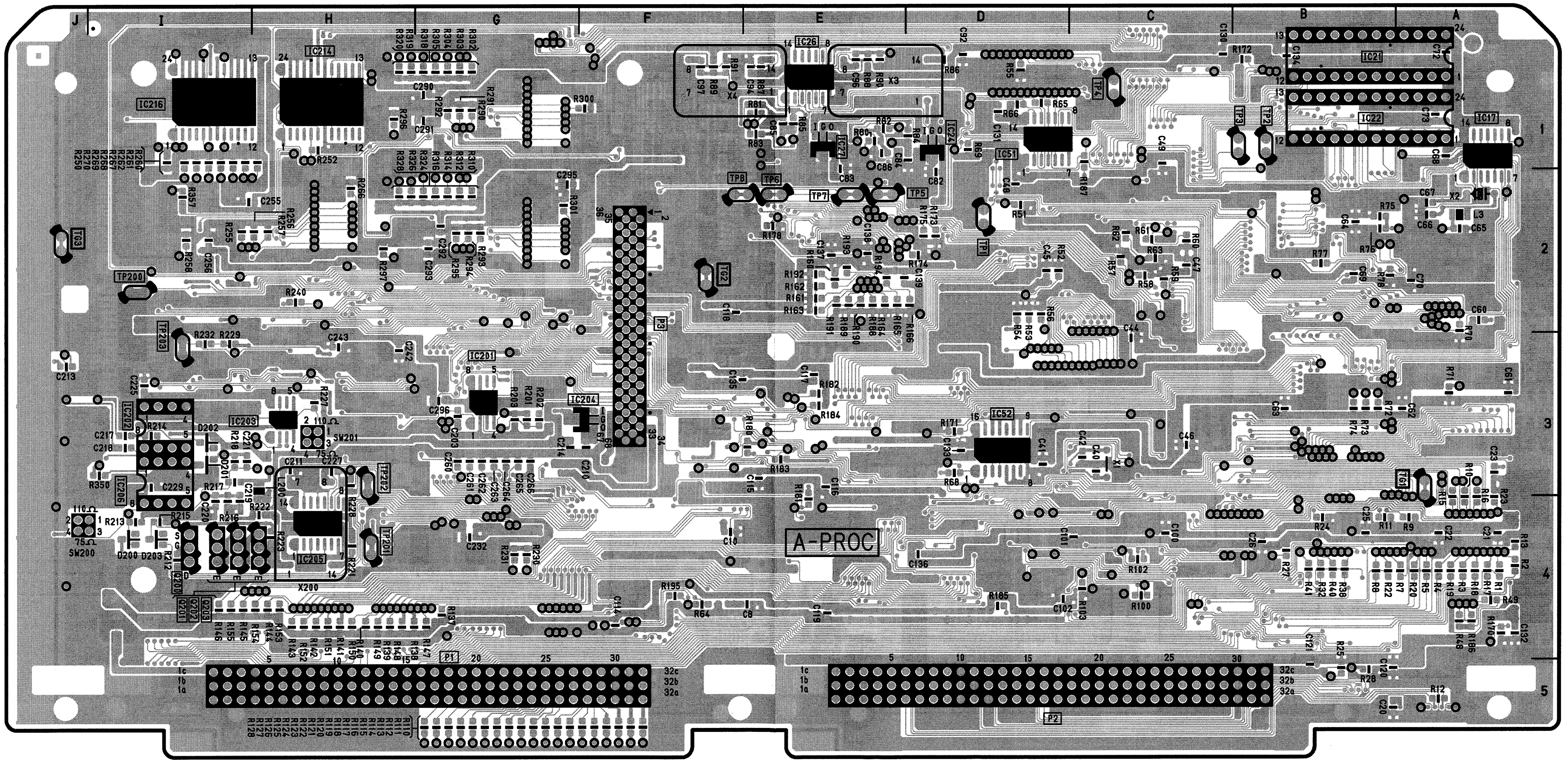
F6 VEP83398
V IN
VJB83398
REF.NO.8000 SERIES

(COMPONENT SIDE)

F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440)

REF	LOC
IC17	A1
IC201	G3
IC203	H3
IC204	F3
IC205	H4
IC214	H1
IC216	I1
IC24	D1
IC26	E1
IC27	E1
IC51	D1
IC52	D3

(FOIL SIDE)



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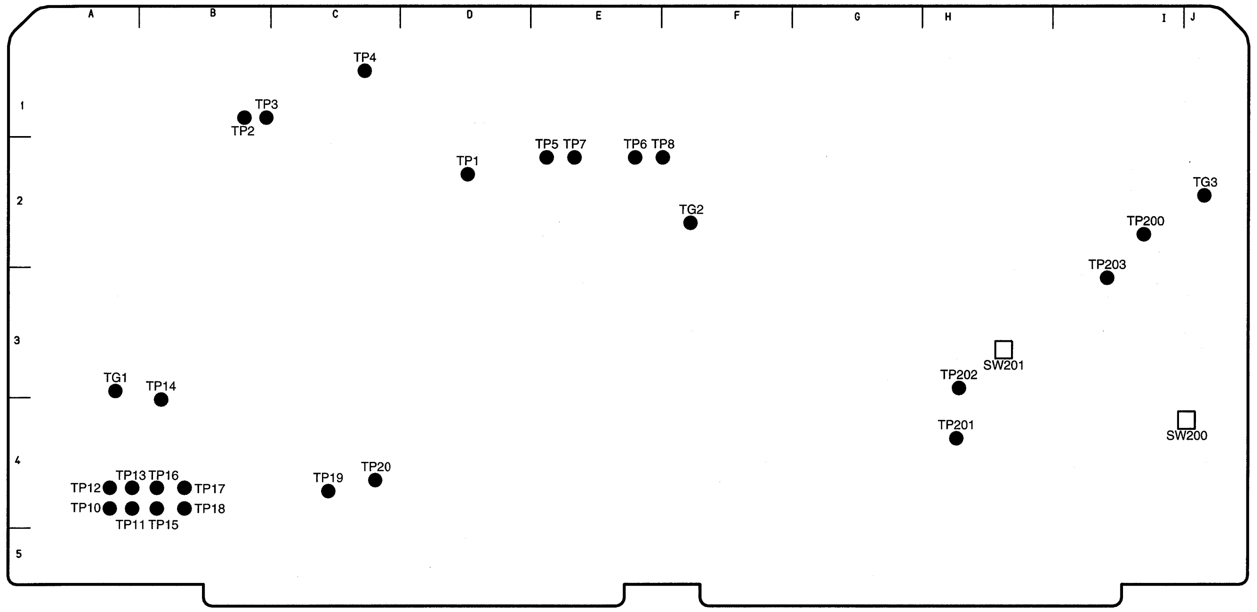
(FOIL SIDE)

F7: A PROC P.C. BOARD (VEP84292A: 450, VEP84292D: 440)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC	REC	LOC
IC1	A4	IC211	G3	IC37	H4	IC7	C4	TP14	B4	X200	H4
IC10	D3	IC212	I1	IC38	I4	IC8	B5	TP15	B4	X3	D1
IC11	C3	IC213	H1	IC39	H4	IC9	C3	TP16	B4	X3A	E1
IC12	C2	IC215	H1	IC4	A5	P1	G5	TP17	B4	X4	E1
IC13	D1	IC217	I2	IC40	I4	P2	D5	TP18	B4	X4A	F1
IC14	B3	IC218	H2	IC41	F4	P3	F2	TP19	C4		
IC15	A2	IC219	G1	IC42	F3	Q200	I4	TP2	B1		
IC16	A3	IC22	A1	IC43	E4	Q201	I4	TP20	C4		
IC18	B2	IC220	G2	IC44	E3	Q202	I4	TP200	I2		
IC19	B2	IC221	G1	IC45	E3	Q203	H4	TP201	H4		
IC2	A4	IC222	G2	IC46	F3	SW200	J4	TP202	H3		
IC20	B2	IC23	A1	IC5	A3	SW201	H3	TP203	I3		
IC200	G2	IC231	H3	IC50	A4	TG1	A3	TP3	C1		
IC202	I3	IC25	E1	IC53	F3	TG2	F2	TP4	C1		
IC206	I3	IC28	E1	IC54	C1	TG3	J2	TP5	E2		
IC207	G4	IC30	C4	IC55	E2	TP1	D2	TP6	E2		
IC208	I3	IC31	D4	IC56	E2	TP10	A4	TP7	E2		
IC209	I2	IC34	D4	IC57	C1	TP11	A4	TP8	F2		
IC21	A1	IC35	G4	IC58	D4	TP12	A4	X1	C3		
IC210	H2	IC36	G4	IC6	B4	TP13	A4	X2	A2		

(COMPONENT SIDE)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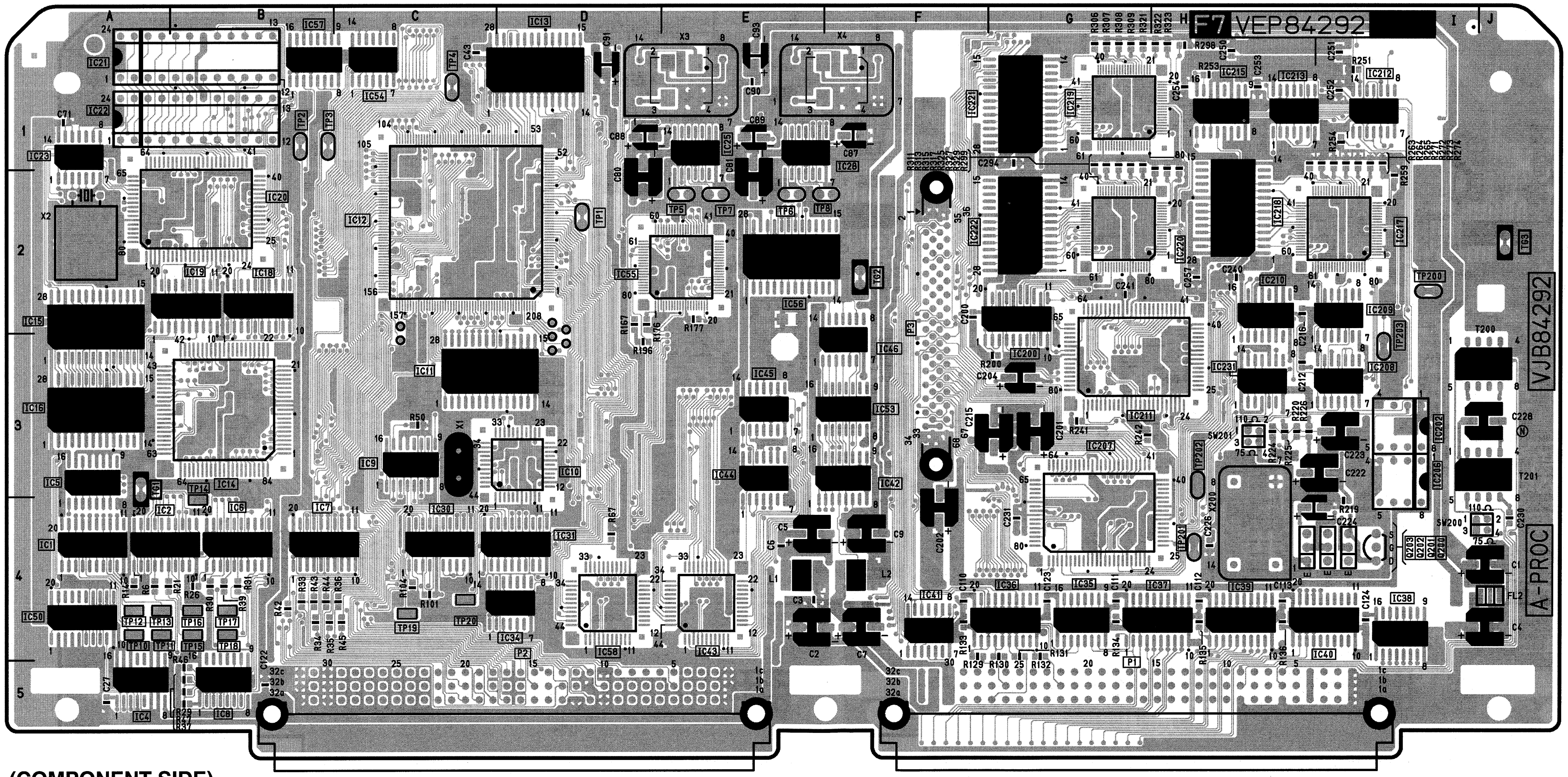
F7 VEP84292
VJB84292
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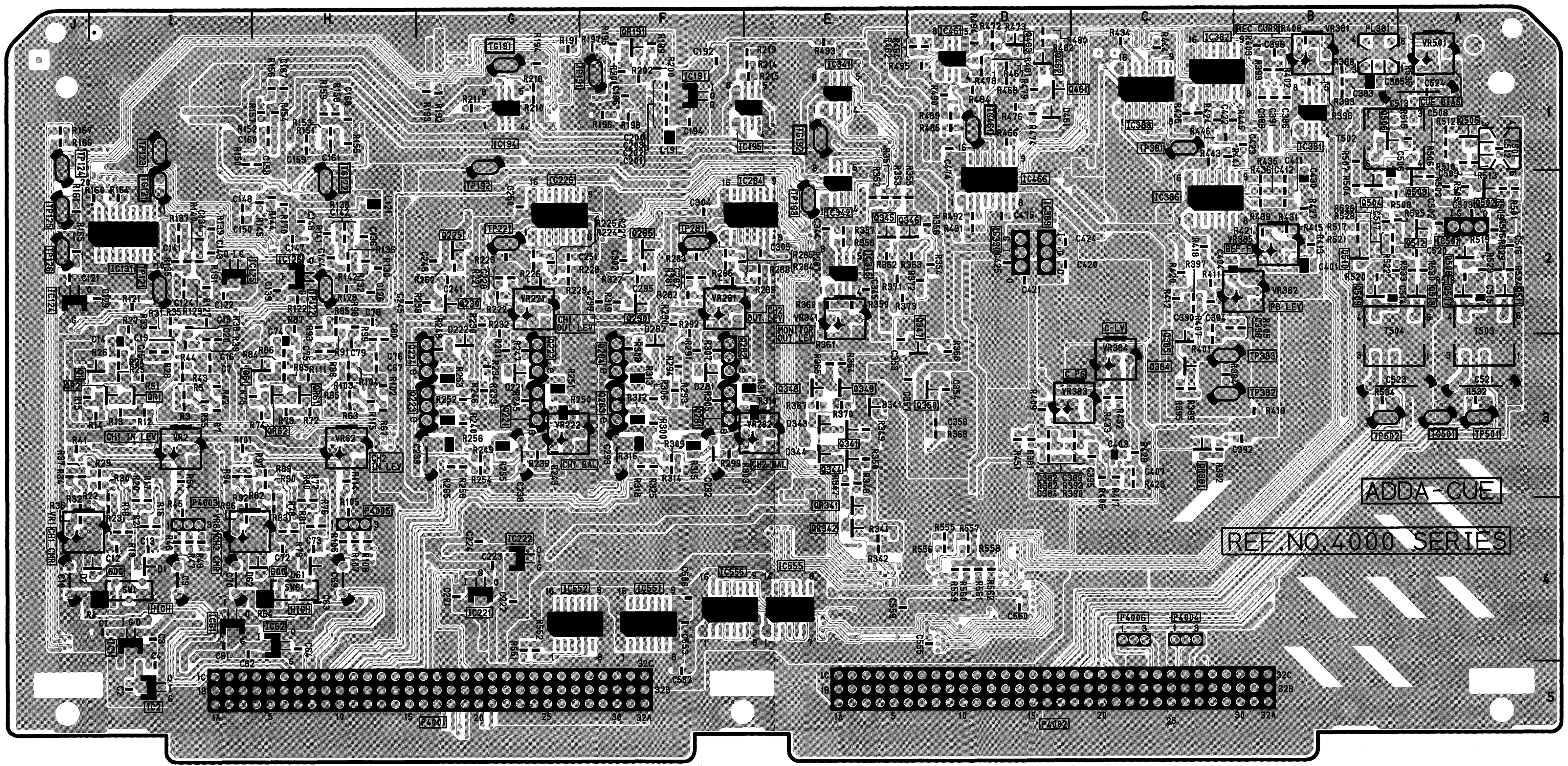
(COMPONENT SIDE)

F8: ADDA/CUE P.C. BOARD (VEP84293A: NTSC, VEP84293B:PAL)

REF	LOC	REF	LOC	REF	LOC	REC	LOC	REC	LOC
IC4001	I4	IC4284	E2	Q4001	I3	Q4384	C3	Q4511	A2
IC4002	I5	IC4341	E1	Q4061	H3	Q4385	C3	Q4512	A2
IC4061	I4	IC4342	E2	Q4225	G2	Q4461	D1	Q4513	A2
IC4062	H4	IC4345	E2	Q4230	G2	Q4462	D1	QR4001	I3
IC4124	J2	IC4381	B1	Q4285	F2	Q4463	D1	QR4002	I3
IC4125	I2	IC4382	C1	Q4290	F2	Q4502	A2	QR4061	H3
IC4126	H2	IC4383	C1	Q4341	E3	Q4503	A2	QR4062	H3
IC4131	I2	IC4386	C2	Q4344	E3	Q4504	B2	QR4191	F1
IC4191	F1	IC4461	D1	Q4345	E2	Q4505	A1	QR4341	E4
IC4194	G1	IC4466	D2	Q4346	D2	Q4506	B1	QR4342	E4
IC4195	E1	IC4551	F4	Q4347	D3	Q4507	A2	QR4381	C3
IC4221	G4	IC4552	G4	Q4348	E3	Q4508	A2		
IC4222	G4	IC4555	E4	Q4349	E3	Q4509	B2		
IC4226	G2	IC4556	F4	Q4350	D3	Q4510	B2		

(FOIL SIDE)

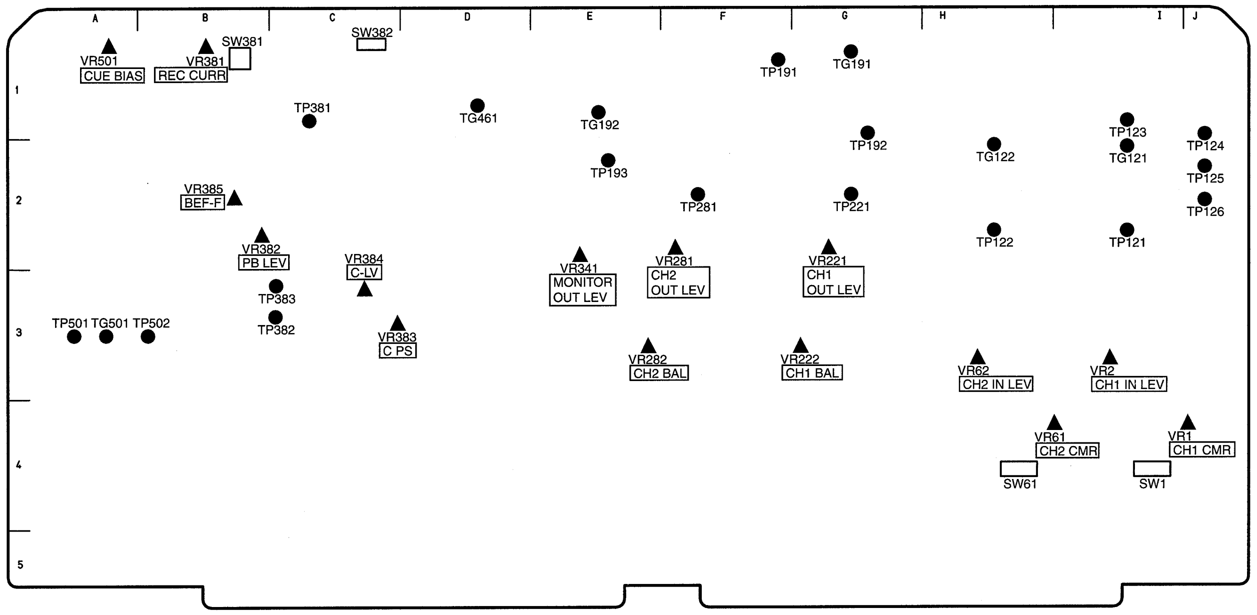

J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
ADDA-CUE
REF.NO.4000 SERIES
CH1 IN LEV
CH2 IN LEV
CH1 OUT LEV
CH2 OUT LEV
CH1 BAL
CH2 BAL
MONITOR OUT LEV
REC CURR
CUE BIAS
PB LEV
C-LV
C PS
P4001
P4002
P4003
P4004
P4005
P4006

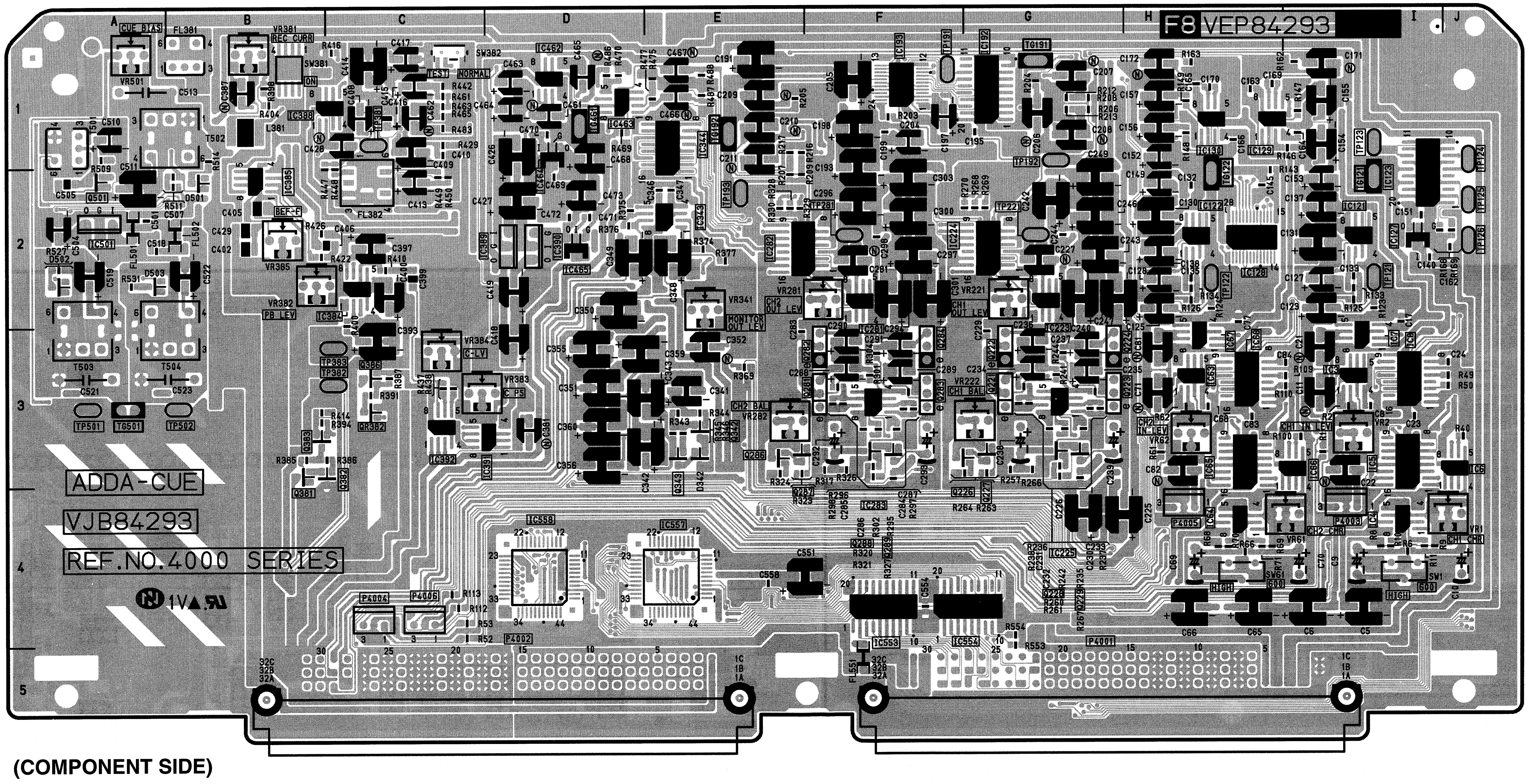
(FOIL SIDE)

F8: ADDA/CUE P.C. BOARD (VEP84293A: NTSC, VEP84293B:PAL)

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4003	I3	IC4193	F1	IC4501	A2	Q4282	F3	TG4122	H2	TP4502	B3
IC4004	I4	IC4223	G2	IC4553	F4	Q4283	F3	TG4191	G1	VR4001	J4
IC4005	I3	IC4224	G2	IC4554	G4	Q4284	F3	TG4192	E1	VR4002	I3
IC4006	J3	IC4225	G3	IC4557	E4	Q4286	E3	TG4461	D1	VR4061	I4
IC4007	I3	IC4281	F2	IC4558	D4	Q4287	E3	TG4501	A3	VR4062	H3
IC4008	I3	IC4282	E2	P4001	G5	Q4288	F3	TP4121	I2	VR4221	G2
IC4063	H3	IC4283	F3	P4002	D5	Q4289	F3	TP4122	H2	VR4222	G3
IC4064	H4	IC4343	E2	P4003	I4	Q4342	E3	TP4123	I1	VR4281	F2
IC4065	H3	IC4344	E1	P4004	C4	Q4343	E3	TP4124	J1	VR4282	E3
IC4066	I3	IC4384	C2	P4005	H4	Q4381	B3	TP4125	J2	VR4341	E2
IC4067	H3	IC4385	B2	P4006	C4	Q4382	C3	TP4126	J2	VR4381	B1
IC4068	H3	IC4388	C1	Q4221	G3	Q4383	B3	TP4191	F1	VR4382	B2
IC4121	I2	IC4389	D2	Q4222	G3	Q4386	C3	TP4192	G1	VR4383	C3
IC4122	H2	IC4390	D2	Q4223	G3	Q4501	A2	TP4193	E2	VR4384	C3
IC4123	I2	IC4391	D3	Q4224	G3	QR4382	C3	TP4221	G2	VR4385	B2
IC4127	I2	IC4392	C3	Q4226	F3	SW4001	I4	TP4281	F2	VR4501	A1
IC4128	H2	IC4462	D1	Q4227	G3	SW4061	H4	TP4381	C1		
IC4129	H1	IC4463	D1	Q4228	G3	SW4381	B1	TP4382	C3		
IC4130	H1	IC4464	D1	Q4229	G3	SW4382	C1	TP4383	C3		
IC4192	G1	IC4465	D2	Q4281	F3	TG4121	I2	TP4501	A3		

(COMPONENT SIDE)


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
VR501
CUE BIAS
VR381
REC CURR
SW381
SW382
TP191
TG191
TP381
TG461
TG192
TP192
TG122
TP123
TG121
TP124
TP125
TP126
TP193
VR385
BEF-F
TP281
TP221
TP122
TP121
VR382
PB LEV
VR384
C-LV
VR341
MONITOR
OUT LEV
VR281
CH2
OUT LEV
VR221
CH1
OUT LEV
TP383
TP501
TG501
TP502
TP382
VR383
C PS
VR282
CH2 BAL
VR222
CH1 BAL
VR62
CH2 IN LEV
VR2
CH1 IN LEV
VR61
CH2 CMR
VR1
CH1 CMR
SW61
SW1

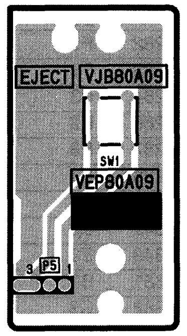

F8 VEP84293
ADDA-CUE
VJB84293
REF.NO.4000 SERIES
1V
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
CUE BIAS
REC CURR
VR501
VR381
SW381
SW382
TEST
NORMAL
BEF-F
VR385
VR382
PB LEV
VR384
C-LV
VR383
C PS
VR341
MONITOR
OUT LEV
VR281
CH2
OUT LEV
VR221
CH1
OUT LEV
CH2 BAL
VR282
CH1 BAL
VR222
CH2 IN LEV
CH1 IN LEV
CH2 CMR
CH1 CMR
VR61
VR1
HIGH
600
SW61
SW1
T502
T503
T504
TP501
TG501
TP502
IC558
IC557
IC553
IC554
P4001
P4002
P4004
P4005
P4006
P4003
32C
32B
32A
1C
1B
1A

(COMPONENT SIDE)

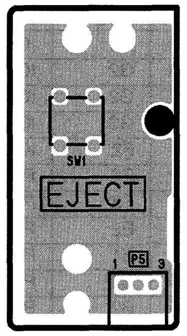
FRONT CPU P.C. BOARD (VEP86256A: 450, VEP86256B:440) and EJECT P.C. BOARD (VEP80A09A)

REF	LOC
IC12	A1
IC13	A1
Q1	L1
Q2	J1
Q3	I1
Q4	I1
Q5	H1
QR1	I2
QR2	H3
QR3	F4

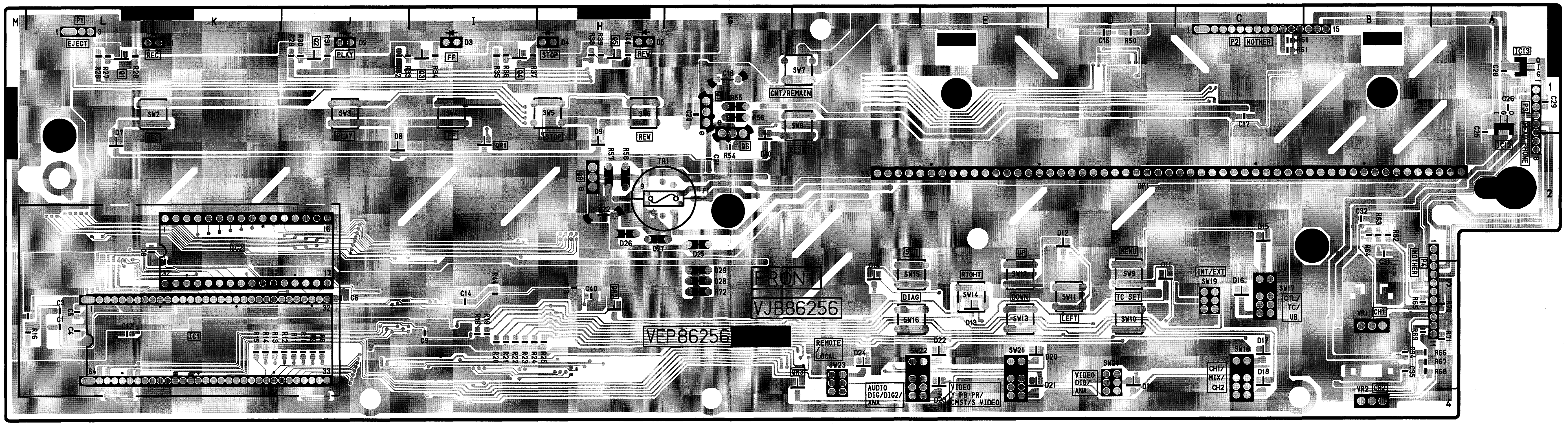
(FOIL SIDE)


EJECT
VJB80A09
SW1
VEP80A09
P5
3
1

(FOIL SIDE)


SW1
EJECT
P5
1
3

(COMPONENT SIDE)

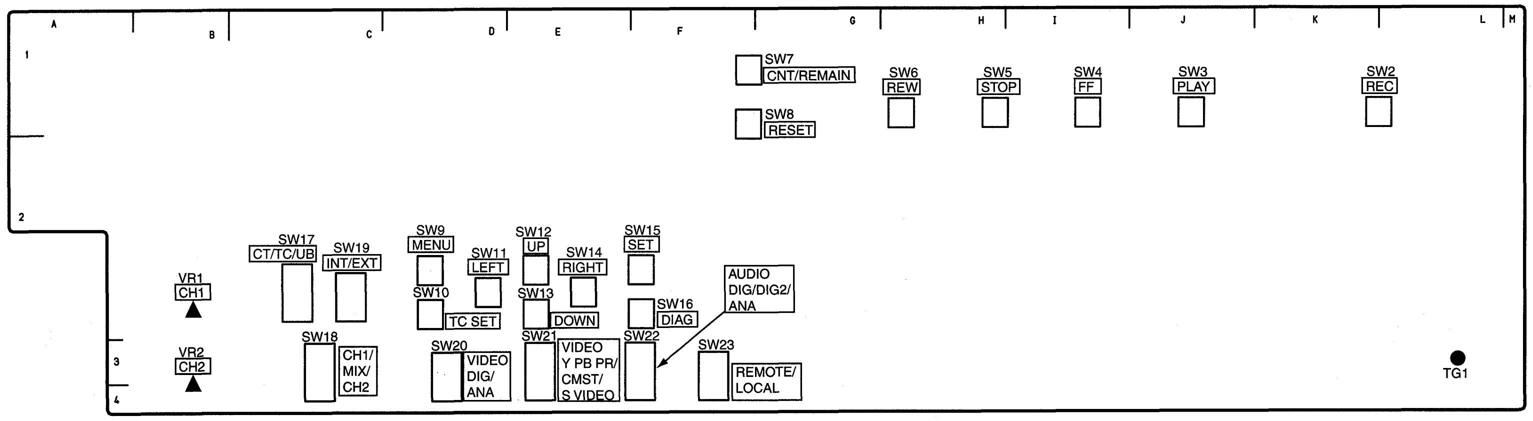

M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
P1
EJECT
REC
PLAY
FF
STOP
REV
SW2
SW3
SW4
SW5
SW6
SW7
SW8
CNT/REMAIN
RESET
TR1
F1
IC1
IC2
IC12
IC13
P2
MOTHER
P3
HEAD PHONE
DP1
SET
RIGHT
UP
DOWN
LEFT
MENU
TC SET
DIAG
INT/EXT
CTL/TC/UB
REMOTE/LOCAL
AUDIO DIG/DIG2/ANA
VIDEO Y PB PR/CMST/S VIDEO
VIDEO DIG/ANA
CH1/MIX/CH2
VR1
CH1
VR2
CH2
FRONT
VJB86256
VEP86256

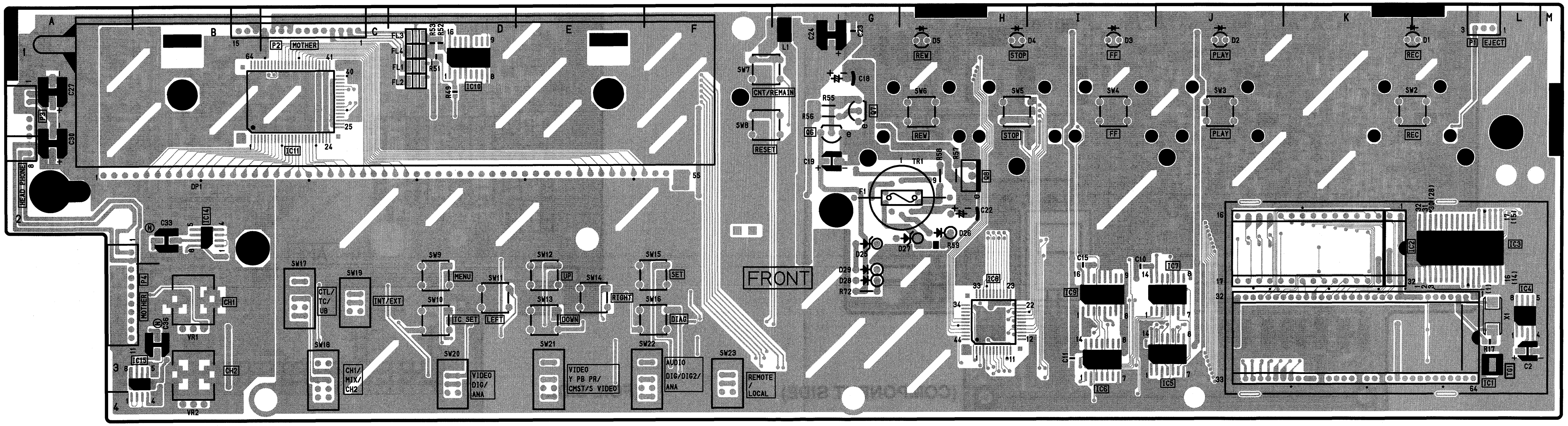
(FOIL SIDE)

FRONT CPU P.C. BOARD (VEP86256A: 450, VEP86256B:440)

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	L3	P2	C1	SW18	C3	TG1	L3
IC10	D1	P3	A1	SW19	C3	VR1	B3
IC11	C1	P4	A2	SW2	L1	VR2	B3
IC14	B2	Q6	G2	SW20	D3	X1	L3
IC15	B3	Q7	G1	SW21	E3		
IC2	K2	Q8	H2	SW22	F3		
IC3	L2	SW10	D3	SW23	F3		
IC4	L3	SW11	D3	SW3	J1		
IC5	J3	SW12	E3	SW4	I1		
IC6	I3	SW13	E3	SW5	H1		
IC7	J3	SW14	E3	SW6	H1		
IC8	H3	SW15	F3	SW7	F1		
IC9	I3	SW16	F3	SW8	F1		
P1	L1	SW17	C3	SW9	D3		

(COMPONENT SIDE)


A
B
C
D
E
F
G
H
I
J
K
L
M
1
2
3
4
SW7 CNT/REMAIN
SW8 RESET
SW6 REW
SW5 STOP
SW4 FF
SW3 PLAY
SW2 REC
SW17 CT/TC/UB
SW19 INT/EXT
SW9 MENU
SW11 LEFT
SW12 UP
SW14 RIGHT
SW15 SET
SW10 TC SET
SW13 DOWN
SW16 DIAG
AUDIO DIG/DIG2/ ANA
VR1 CH1
VR2 CH2
SW18 CH1/ MIX/ CH2
SW20 VIDEO DIG/ ANA
SW21 VIDEO Y PB PR/ CMST/ S VIDEO
SW22
SW23 REMOTE/ LOCAL
TG1


A
B
C
D
E
F
G
H
I
J
K
L
M
P2 MOTHER
IC11
IC10
DP1
HEAD PHONE
P3
C27
C30
IC14
C33
P4 MOTHER
VR1 CH1
VR2 CH2
IC15
SW17 CTL/ TC/ UB
SW19 INT/EXT
SW18 CH1/ MIX/ CH2
SW9 MENU
SW10 TC SET
SW11 LEFT
SW20 VIDEO DIG/ ANA
SW12 UP
SW13 DOWN
SW14 RIGHT
SW21 VIDEO Y PB PR/ CMST/S VIDEO
SW15 SET
SW16 DIAG
SW22 AUDIO DIG/DIG2/ ANA
SW23 REMOTE / LOCAL
SW7 CNT/REMAIN
SW8 RESET
L1
C24
C23
C18
C19
R55
R56
Q6
Q7
Q8
TR1
F1
C22
D26
D27
D25
FRONT
IC8
D5 REW
D4 STOP
D3 FF
D2 PLAY
D1 REC
SW6 REW
SW5 STOP
SW4 FF
SW3 PLAY
SW2 REC
P1 EJECT
IC9
IC7
IC6
IC5
C15
C10
C11
IC2
IC3
IC4
IC1
X1
R17
C2
TG1

(COMPONENT SIDE)

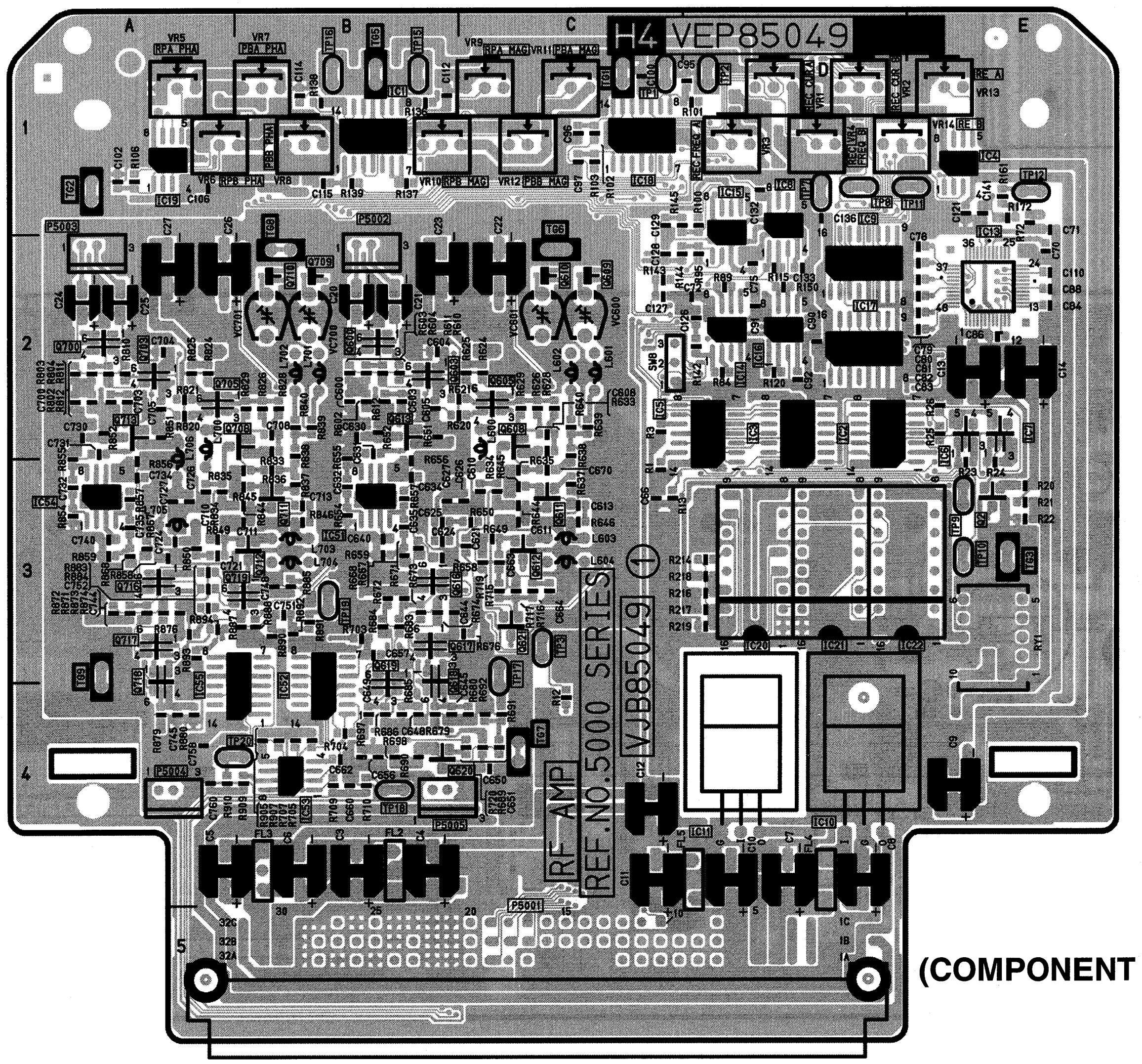
RF AMP P.C.BOARD (VEP85049A)

COMPONENT SIDE

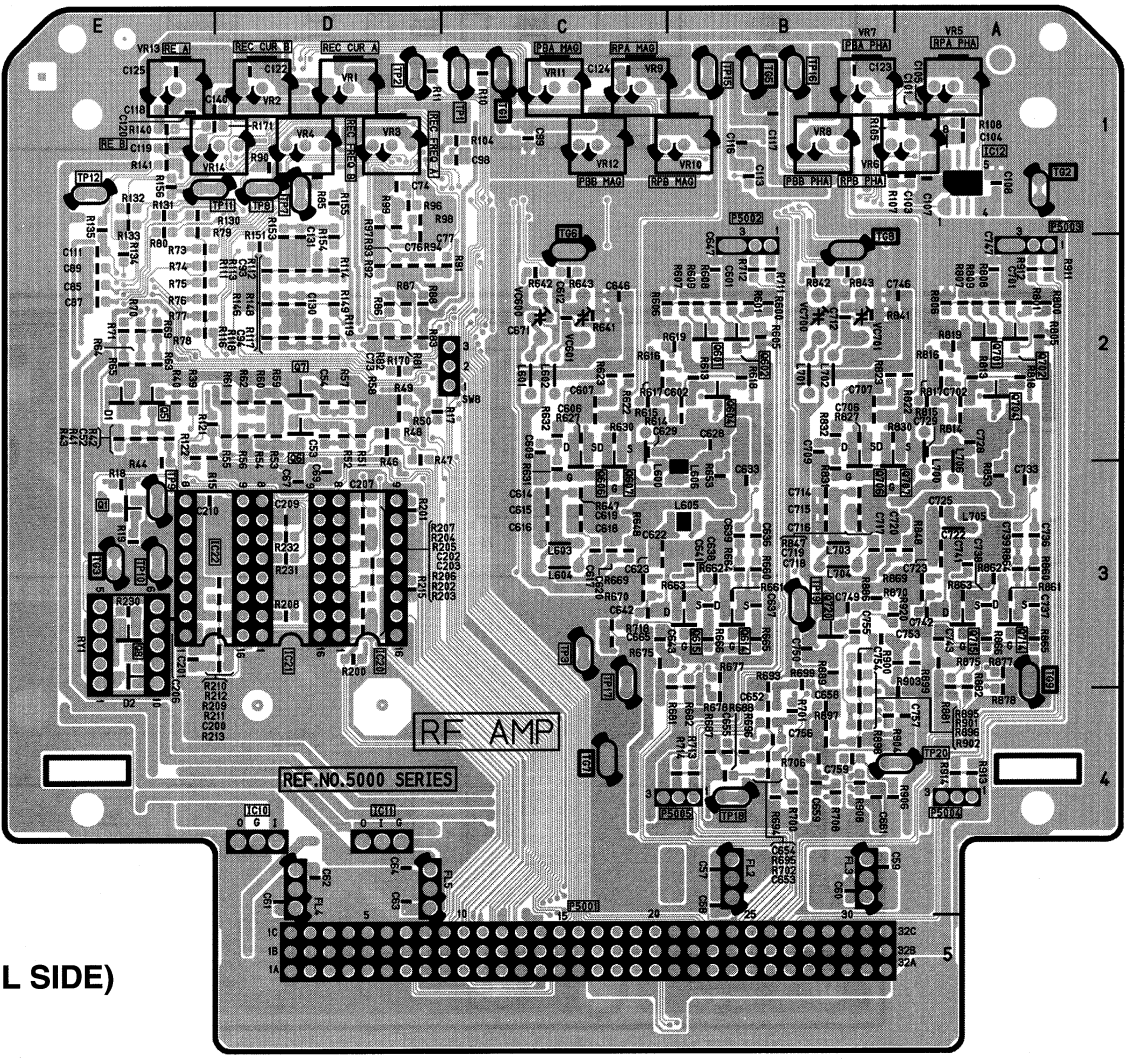
REF	LOC	REF	LOC
IC5010	D4	TP5011	E1
IC5011	D4	TP5012	E1
IC5020	D3	TP5015	B1
IC5021	D3	TP5016	B1
IC5022	E3	TP5017	C3
P5001	C5	TP5018	B4
P5002	B2	TP5019	B3
P5003	A2	TP5020	A4
P5004	A4	VC5600	C2
P5005	B4	VC5601	C2
SW5008	C2	VC5700	B2
TG5001	C1	VC5701	B2
TG5002	A1	VR5001	D1
TG5003	E3	VR5002	D1
TG5005	B1	VR5003	D1
TG5006	C2	VR5004	D1
TG5007	C4	VR5005	A1
TG5008	B2	VR5006	A1
TG5009	A3	VR5007	B1
TP5001	C1	VR5008	B1
TP5002	D1	VR5009	C1
TP5003	C3	VR5010	B1
TP5007	D1	VR5011	C1
TP5008	D1	VR5012	C1
TP5009	E3	VR5013	E1
TP5010	E3	VR5014	D1

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC
IC5001	D1	Q5007	D2	Q5702	A2
IC5002	B2	Q5008	E3	Q5703	E2
IC5003	B2	Q5600	D2	Q5704	A2
IC5004	A1	Q5601	B2	Q5705	E2
IC5005	B2	Q5602	B2	Q5706	B3
IC5006	A2	Q5603	D2	Q5707	B3
IC5007	A2	Q5604	B2	Q5708	D2
IC5008	B1	Q5605	C2	Q5709	D2
IC5009	B2	Q5606	C3	Q5710	D2
IC5012	A1	Q5607	C3	Q5711	D3
IC5013	A2	Q5608	C2	Q5712	D3
IC5014	B2	Q5609	C2	Q5713	E2
IC5015	B1	Q5610	C2	Q5714	A3
IC5016	B2	Q5611	C3	Q5715	A3
IC5017	B2	Q5612	C3	Q5716	E3
IC5018	C1	Q5613	D2	Q5717	E3
IC5019	E1	Q5614	B3	Q5718	E3
IC5051	D3	Q5615	B3	Q5719	D3
IC5052	D4	Q5616	D3	Q5720	B3
IC5053	D4	Q5617	D3		
IC5054	E3	Q5618	D3		
IC5055	D4	Q5619	D4		
Q5001	E3	Q5620	D4		
Q5002	A3	Q5621	C3		
Q5005	E2	Q5700	E2		
Q5006	D2	Q5701	A2		



(COMPONENT SIDE)

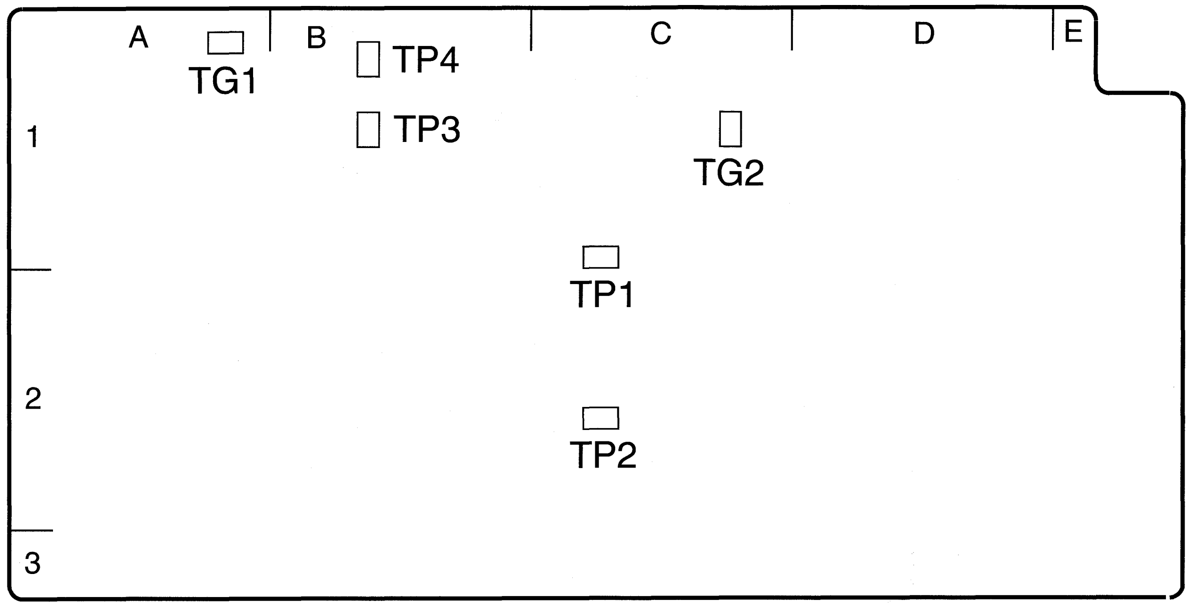


(FOIL SIDE)

HEAD BUFF P.C.BOARD (VEP85151A)

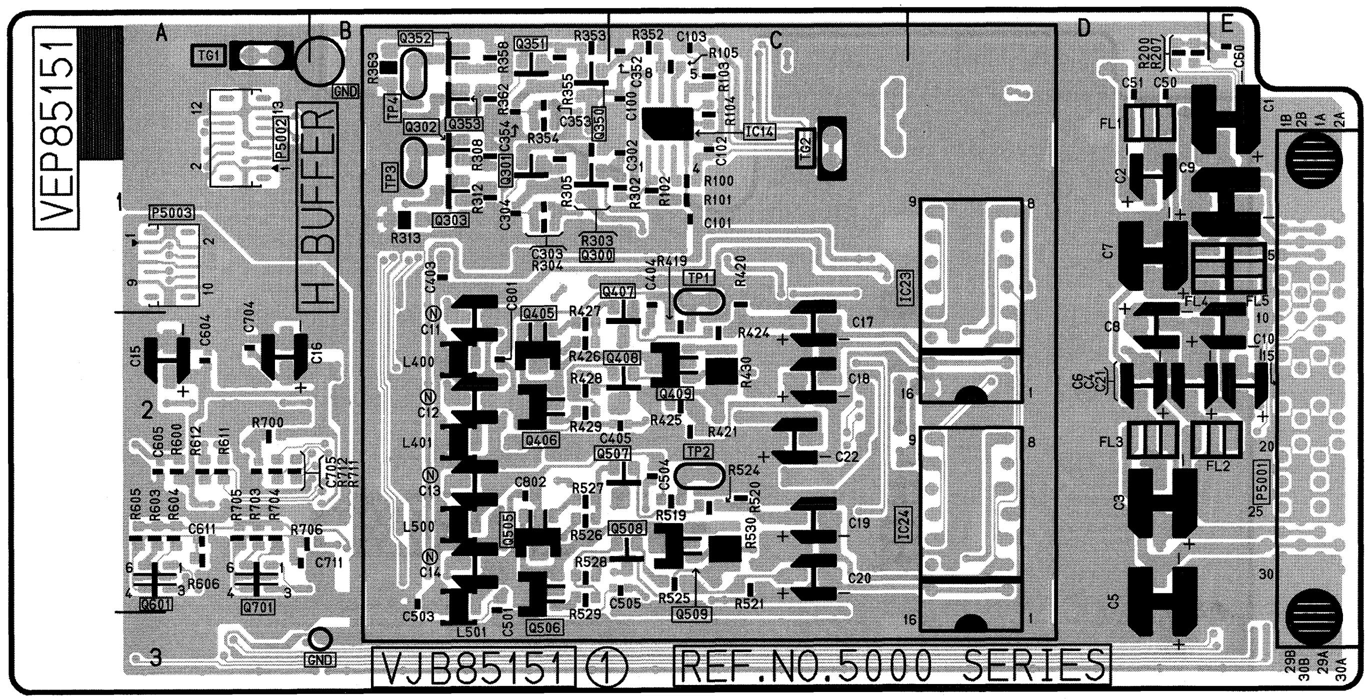
COMPONENT SIDE

REF	LOC
IC14	C1
IC23	D1
IC24	D2
P5001	E2
P5002	A1
P5003	A1
Q300	B1
Q301	B1
Q302	B1
Q303	B1
Q350	B1
Q351	B1
Q352	B1
Q353	B1
Q405	B2
Q406	B2
Q407	C2
Q408	C2
Q409	C2
Q505	B2
Q506	B2
Q507	C2
Q508	C2
Q509	C2
Q601	A2
Q701	A2
TG1	A1
TG2	C1
TP1	C1
TP2	C2

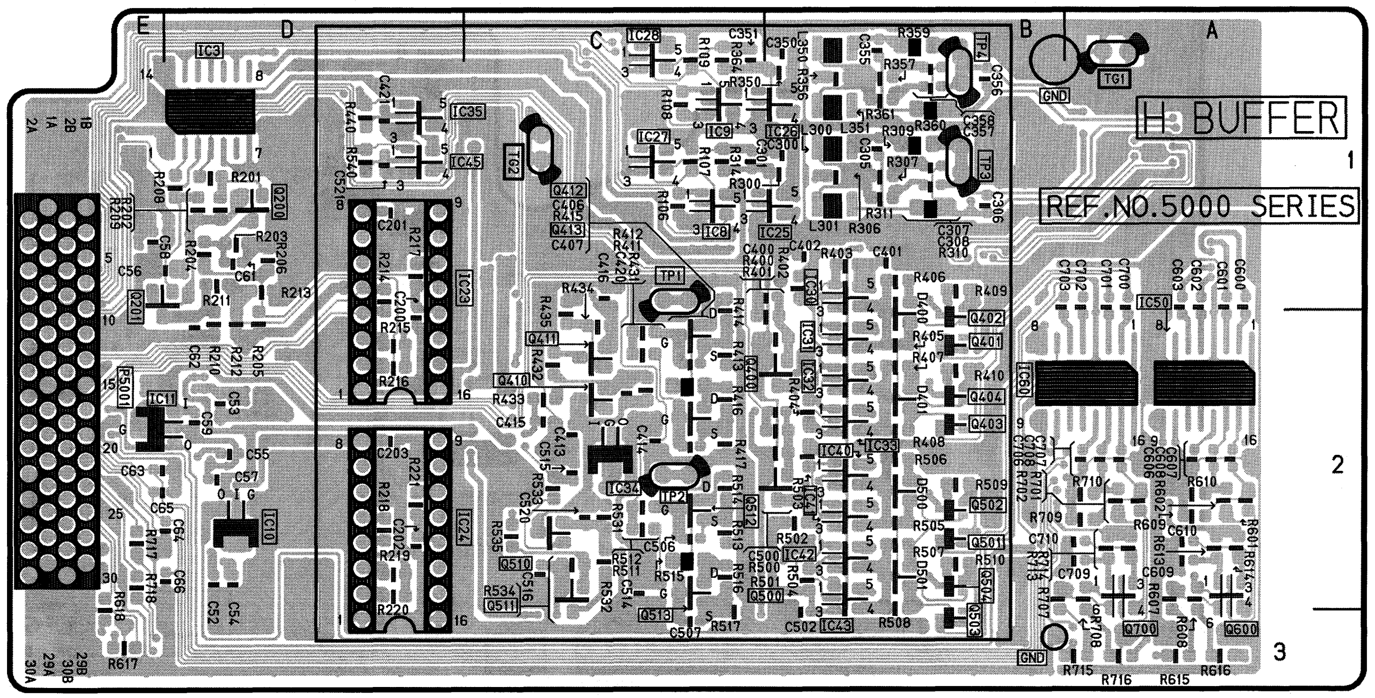

A
B
C
D
E
1
2
3
TG1
TP4
TP3
TG2
TP1
TP2

FOIL SIDE

REF	LOC	REF	LOC
TG1	A1	IC27	C1
IC50	A2	IC28	C1
IC90	A2	Q412	C2
Q600	A2	Q413	C2
Q700	A2	Q411	C2
TP3	B1	Q410	C2
TP4	B1	IC34	C2
IC25	B1	TP2	C2
IC26	B1	Q512	C2
IC30	B1	Q513	C2
Q401	B2	Q510	C2
Q402	B2	Q511	C2
Q403	B2	IC35	D1
Q404	B2	IC45	D1
Q501	B2	IC23	D1
Q502	B2	IC3	D1
Q504	B2	Q200	D1
IC31	B2	IC24	D2
IC32	B2	IC10	D2
IC33	B2	Q201	E1
IC40	B2	IC11	E2
IC41	B2	P5001	E2
IC42	B2		
IC43	B2		
Q400	B2		
Q500	B2		
IC9	C1		
IC8	C1		
TP1	C1		
TG2	C1		


VEP85151
H BUFFER
VJB85151 ①
REF.NO.5000 SERIES
A
B
C
D
E
1
2
3
TG1
TG2
TP1
TP2
TP3
TP4
IC14
IC23
IC24
P5001
P5002
P5003
GND

(COMPONENT SIDE)

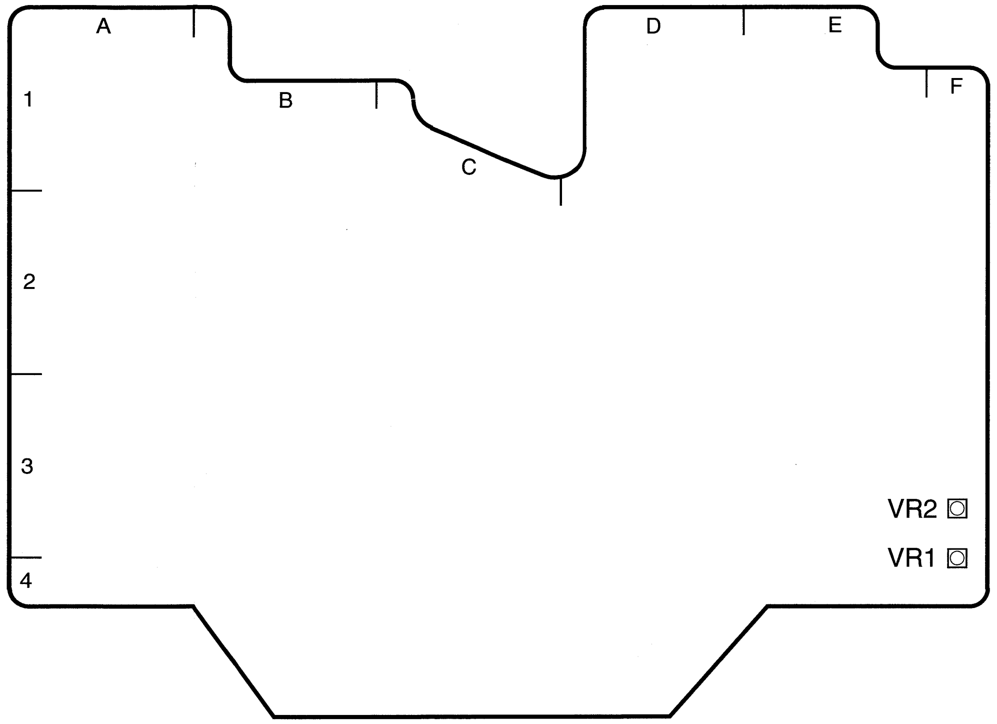

H BUFFER
REF.NO.5000 SERIES
E
D
C
B
A
1
2
3
TG1
TG2
TP1
TP2
TP3
TP4
IC3
IC23
IC24
IC35
IC45
IC50
IC90
P5001
GND

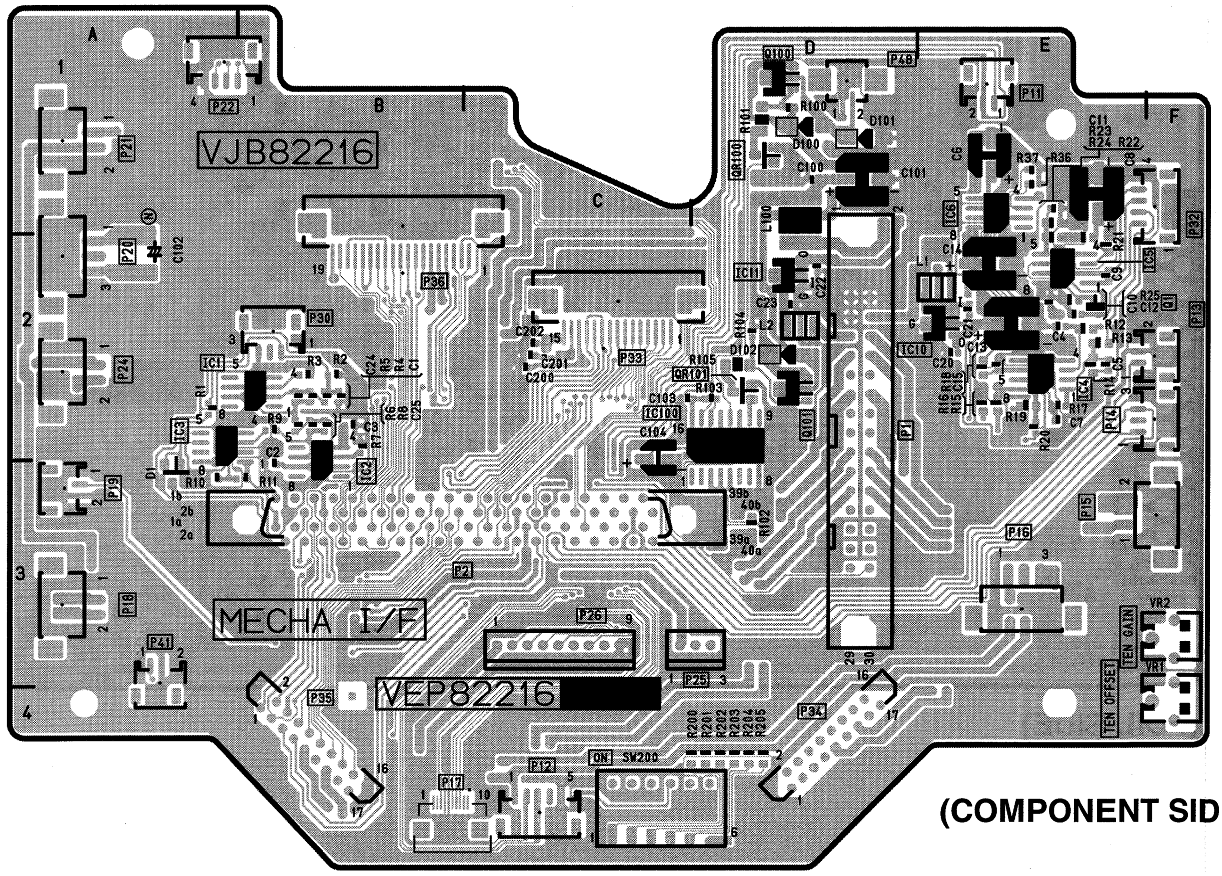
(FOIL SIDE)

MECHA IF P.C.BOARD (VEP82216A)

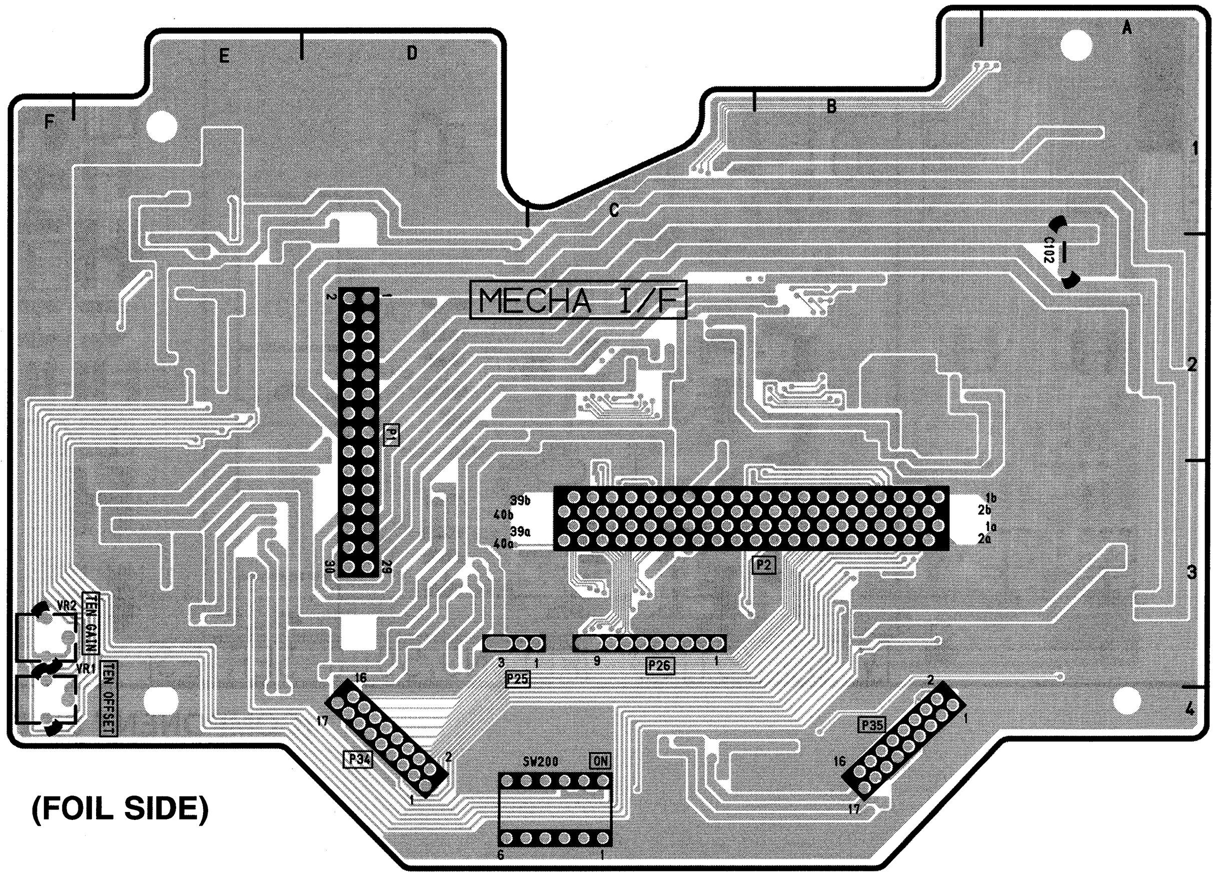
COMPONENT SIDE

REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	B3	P36	B1
IC3	A2	P41	A3
IC4	E2	P48	D1
IC5	E2	Q1	E2
IC6	E1	Q100	D1
IC10	E2	Q101	D2
IC11	D2	QR100	D1
IC100	D2	QR101	D2
P1	D2	SW200	C4
P2	C3	VR1	F4
P11	E1	VR2	F3
P12	C4		
P13	F2		
P14	F2		
P15	F3		
P16	E3		
P17	B4		
P18	A3		
P19	A3		
P20	A2		
P21	A1		
P22	A1		
P24	A2		
P25	C3		
P26	C3		
P30	B2		
P32	F1		


A
B
C
D
E
F
1
2
3
4
VR2
VR1


VJB82216
MECHA I/F
VEP82216
P21
P22
P20
P24
P19
P18
P41
P35
P17
P12
SW200
ON
P25
P26
P34
P2
P1
P30
P33
P36
IC1
IC2
IC3
IC4
IC5
IC6
IC10
IC11
IC100
Q100
Q101
QR100
QR101
P48
P11
P32
P13
P14
P15
P16
VR2
VR1
TEN GAIN
TEN OFFSET

(COMPONENT SIDE)


MECHA I/F
P1
P2
P25
P26
P34
P35
SW200
ON
VR2
VR1
TEN GAIN
TEN OFFSET
C102

(FOIL SIDE)

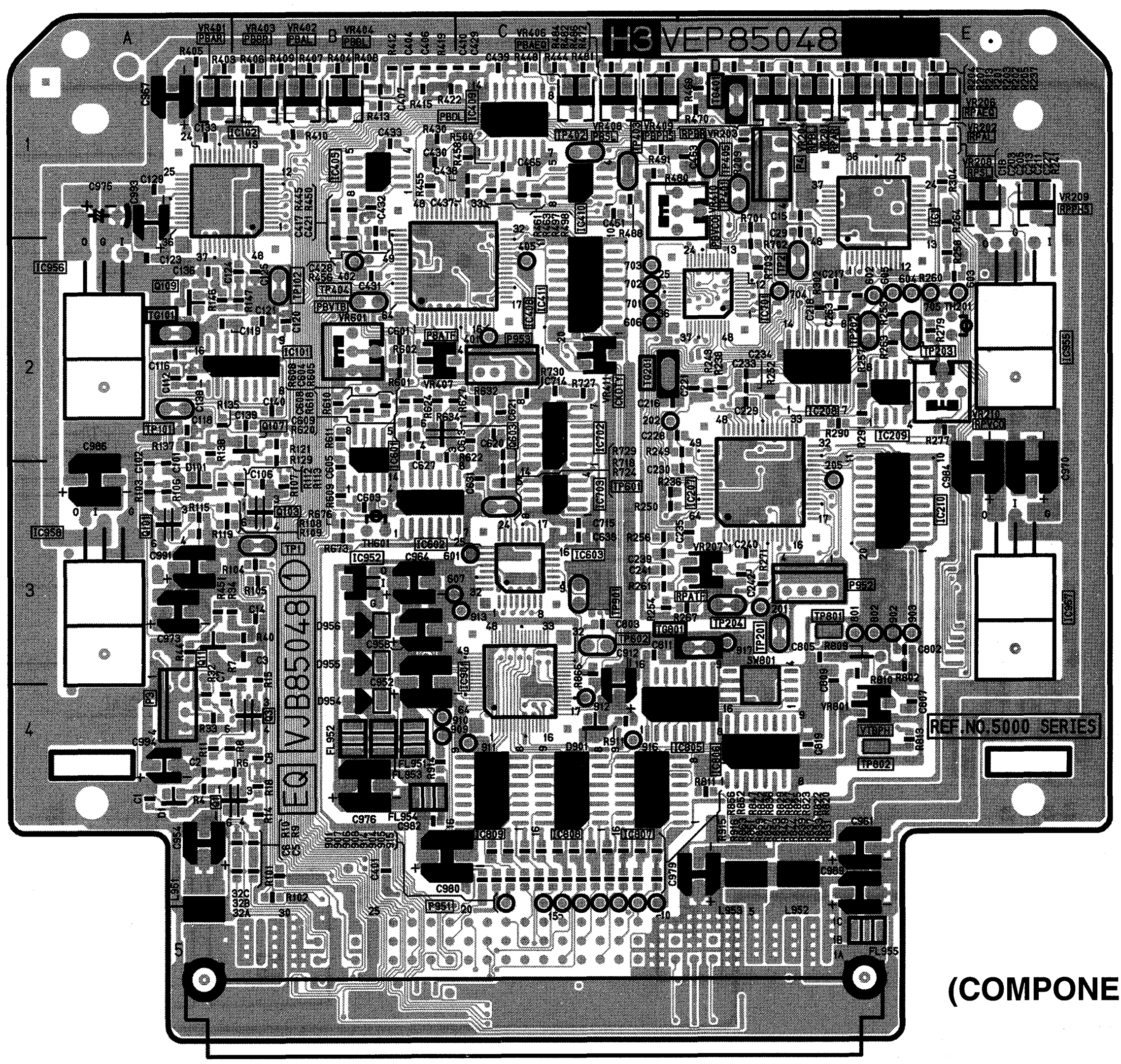
H3: EQ P.C. BOARD (VEP85048A)

COMPONENT SIDE

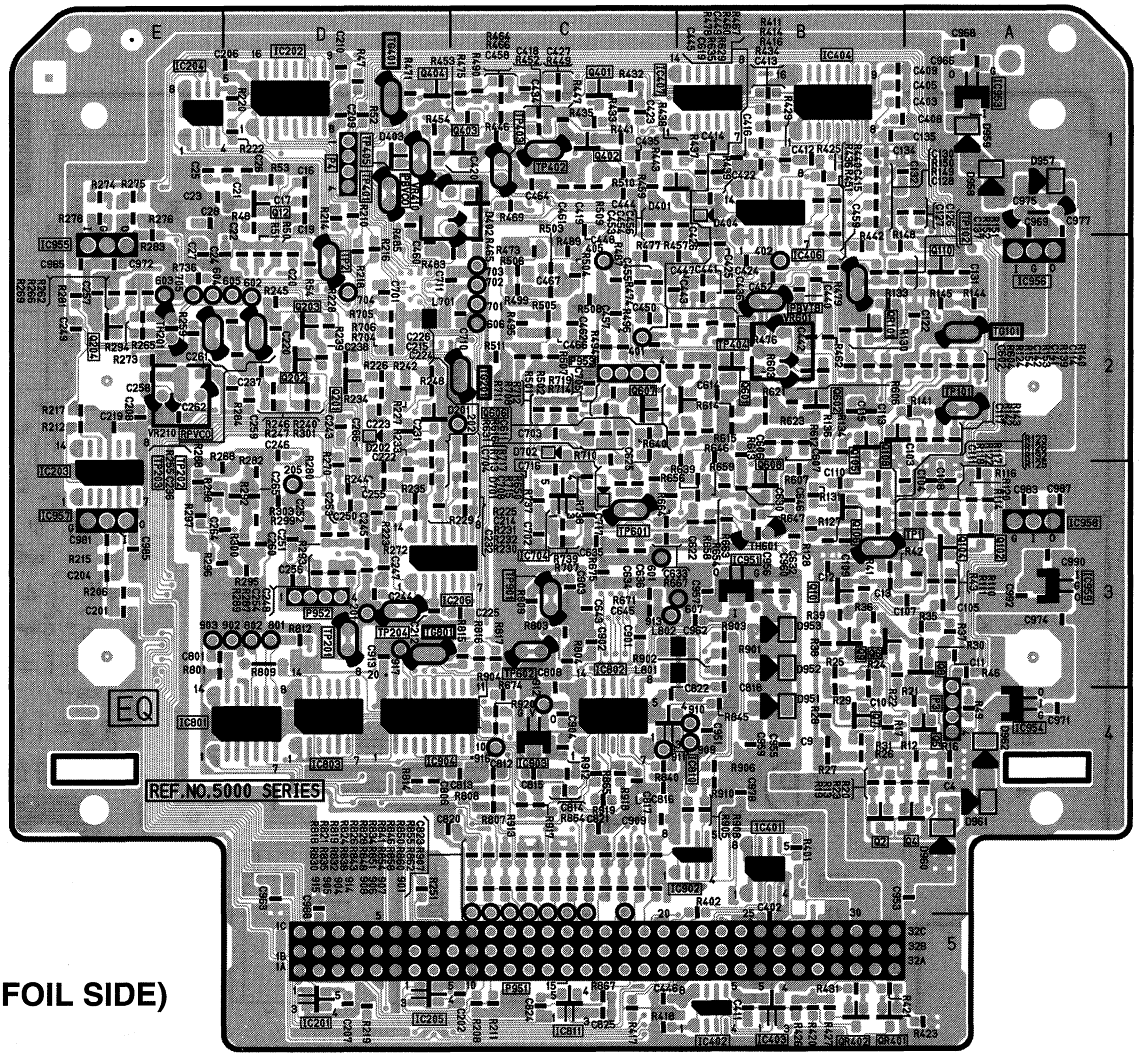
REF	LOC	REF	LOC
IC5955	E2	TP5405	D1
IC5956	A2	TP5601	C3
IC5957	E3	TP5602	C3
IC5958	A3	TP5901	C3
P5003	A3	VR5210	E2
P5004	D1	VR5410	D1
P5951	C5	VR5601	B2
P5952	D3		
P5953	C2		
TG5101	A2		
TG5201	C2		
TG5401	D1		
TG5801	D3		
TP5001	B3		
TP5002	D2		
TP5101	A2		
TP5102	B2		
TP5201	D3		
TP5202	D2		
TP5203	E2		
TP5204	D3		
TP5401	D1		
TP5402	C1		
TP5403	C1		
TP5404	B2		

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5001	B1	IC5602	D3	Q5001	D4	Q5204	E2	VR5401	E1
IC5101	D2	IC5603	C3	Q5002	B4	Q5401	C1	VR5402	D1
IC5102	D1	IC5701	B2	Q5003	D4	Q5402	C1	VR5403	D1
IC5201	D5	IC5702	C2	Q5004	A4	Q5403	C1	VR5404	D1
IC5202	D1	IC5703	C3	Q5005	A4	Q5404	D1	VR5406	C1
IC5203	E3	IC5704	C3	Q5006	B3	Q5601	B2	VR5407	D2
IC5204	E1	IC5801	D4	Q5007	B4	Q5602	B2	VR5408	C1
IC5205	D5	IC5802	C4	Q5008	A3	Q5603	C2	VR5409	C1
IC5206	D3	IC5803	D4	Q5009	B3	Q5606	B2	VR5411	C2
IC5207	B3	IC5805	B4	Q5010	B3	Q5607	C2	VR5801	B4
IC5208	B2	IC5806	B4	Q5011	E3	Q5608	B3		
IC5209	A2	IC5807	C4	Q5012	D1	QR5101	B2		
IC5210	A3	IC5808	C4	Q5101	E3	QR5401	B5		
IC5401	B4	IC5809	C4	Q5102	A3	QR5402	B5		
IC5402	B5	IC5810	C4	Q5103	D3	SW5801	B4		
IC5403	B5	IC5811	C5	Q5104	A3	TP5801	B3		
IC5404	B1	IC5901	C3	Q5105	B2	TP5802	B4		
IC5405	D1	IC5902	B4	Q5106	B3	VR5201	B1		
IC5406	B1	IC5903	C4	Q5107	D2	VR5202	A1		
IC5407	B1	IC5904	D4	Q5108	B2	VR5203	B1		
IC5408	C2	IC5951	B3	Q5109	E2	VR5204	B1		
IC5409	C1	IC5952	D3	Q5110	A2	VR5206	A1		
IC5410	C1	IC5953	A1	Q5201	D2	VR5207	B3		
IC5411	C2	IC5954	A4	Q5202	D2	VR5208	A1		
IC5601	D3	IC5959	A3	Q5203	D2	VR5209	A1		



(COMPONENT SIDE)



(FOIL SIDE)

POWER 1 P.C. BOARD (VEP81074A: NTSC)

POWER 1 (COMPONENT SIDE)			
Transistors		**Connector**	
Q1002	C-4	P1001	A-3
Q1003	B-4	P1002	A-1
Q1004	B-4	P1003	A-2
Q1005	B-4	P1004	C-2
Integrated Circuit		P1005	C-3
IC1001	C-4		
IC1002	B-4		
IC1003	B-3		

ADDRESS INFORMATION

POWER 1 (FOIL SIDE)			
Transistors		**Connector**	
Q1002	C-2	P1001	A-2
Q1003	B-1	P1002	A-4
Q1004	B-1	P1003	A-3
Q1005	B-1	P1004	C-3
Integrated Circuit		P1005	C-1
IC1001	C-1		
IC1002	B-1		
IC1003	B-2		

ADDRESS INFORMATION

JAPAN ONLY

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IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

JAPAN ONLY

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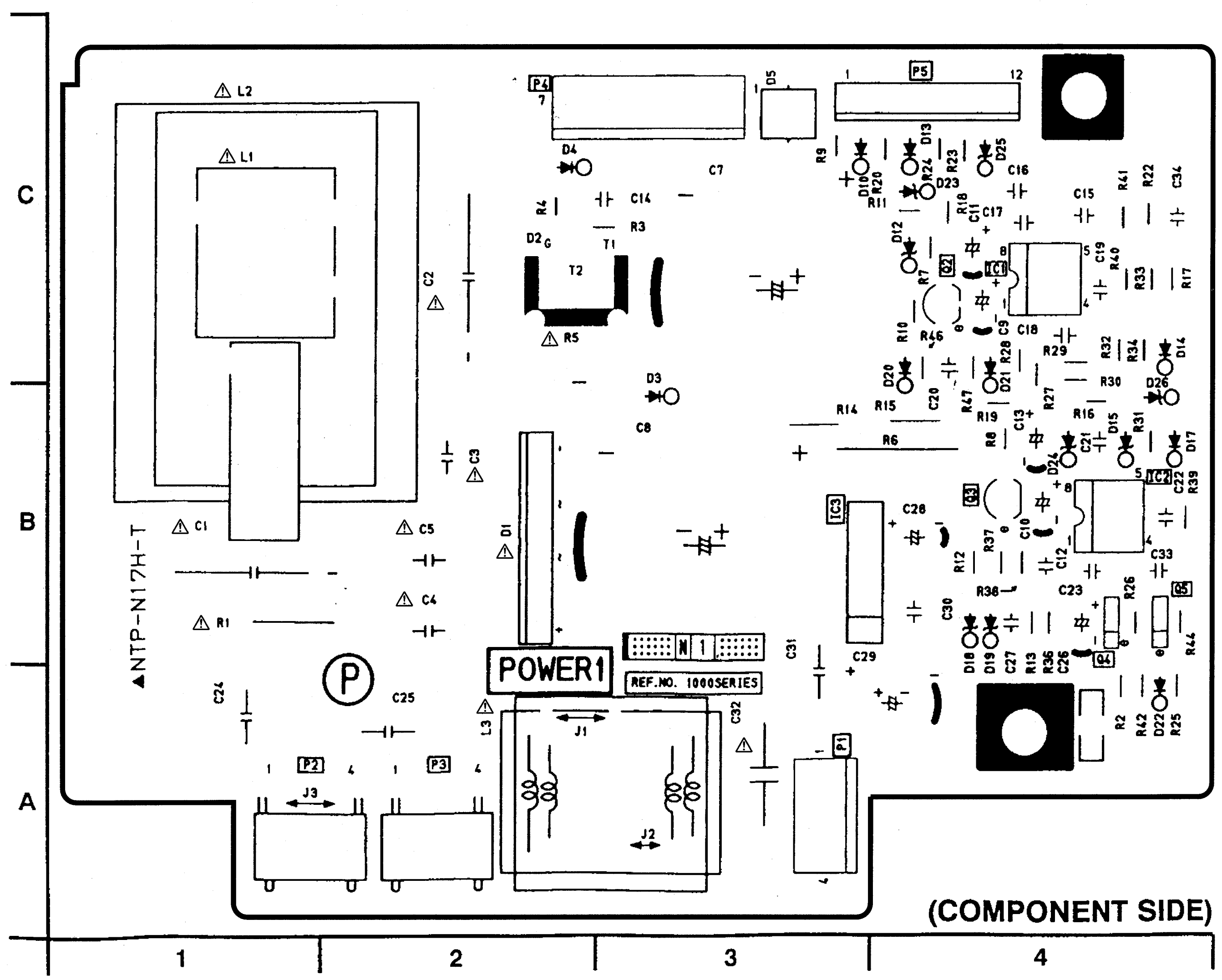
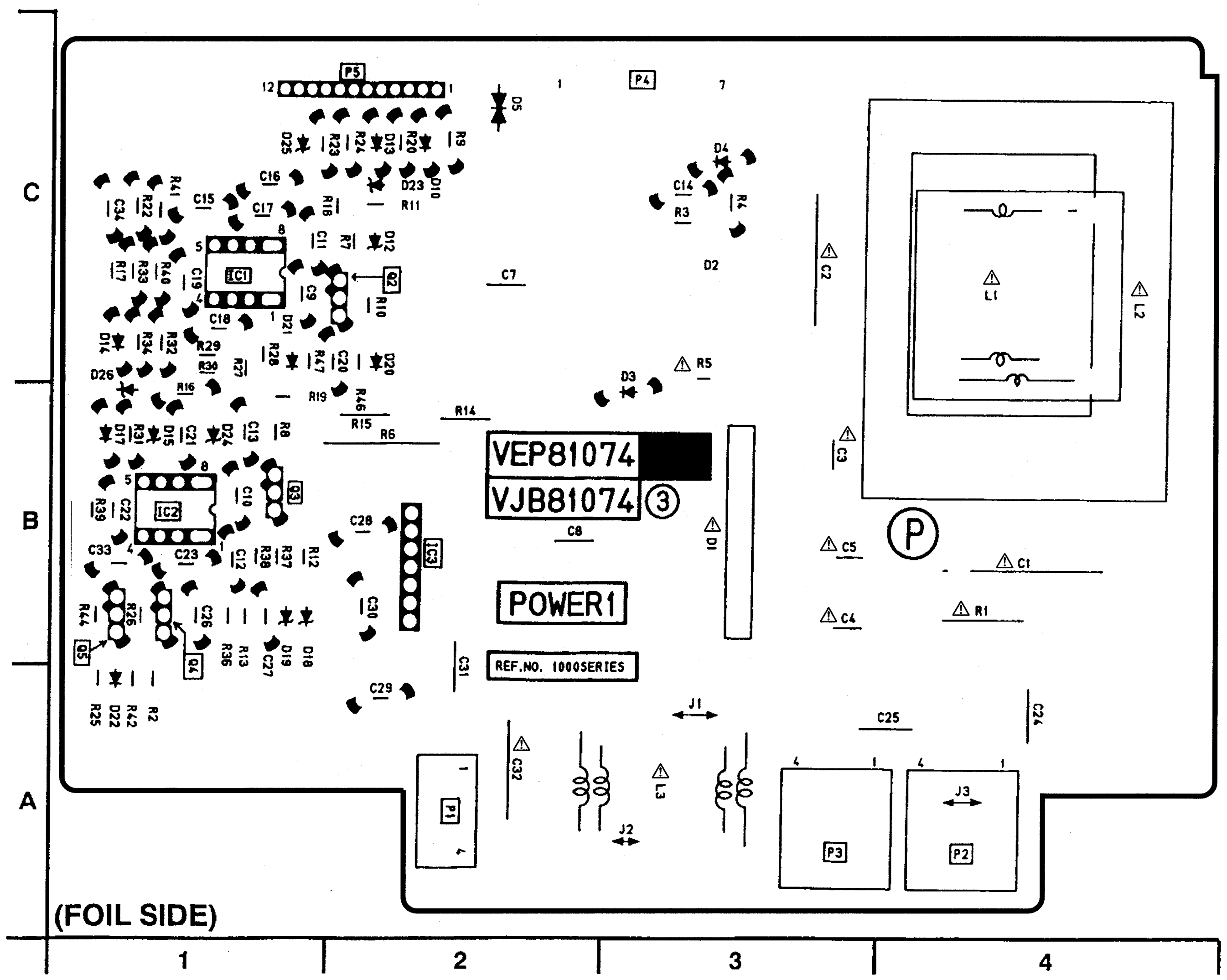

C
B
A
1
2
3
4
POWER1
REF.NO. 1000SERIES
▲NTP-N17H-T
L1
L2
T1
T2
IC1
IC2
IC3
P1
P2
P3
P4
P5
J1
J2
J3

(COMPONENT SIDE)


C
B
A
1
2
3
4
VEP81074
VJB81074 ③
POWER1
REF.NO. 1000SERIES
L1
L2
IC1
IC2
IC3
P1
P2
P3
P4
P5
J1
J2
J3

(FOIL SIDE)

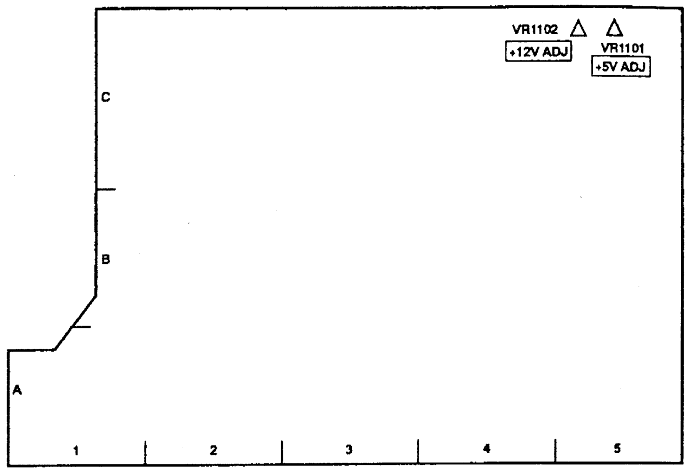
POWER 2 P.C. BOARD (VEP81075A: NTSC)

POWER 2 (FOIL SIDE)			
Transistors		**Adjustment**	
Q1011	C-2	VR1001	C-1
Q1012	C-4	VR1002	C-1
Q1013	C-5	**Connector**	
Q1014	C-1	P1011	A-2
Q1015	C-1	P1012	A-2
Q1016	C-4	P1013	A-3
Q1017	B-5	P1014	A-5
Q1018	B-5	P1015	C-2
Q1019	B-2	P1016	C-4
Integrated Circuit			
IC1011	B-1		
IC1012	B-1		

ADDRESS INFORMATION

POWER 2 (COMPONENT SIDE)			
Transistors		**Adjustment**	
Q1011	C-3	VR1001	C-5
Q1012	C-2	VR1002	C-5
Q1013	C-1	**Connector**	
Q1014	C-5	P1011	A-4
Q1015	C-4	P1012	A-3
Q1016	C-2	P1013	A-3
Q1017	B-1	P1014	A-1
Q1018	B-1	P1015	C-3
Q1019	B-4	P1016	C-2
Integrated Circuit			
IC1011	B-5		
IC1012	B-5		

ADDRESS INFORMATION


VR1102 △
+12V ADJ
△
VR1101
+5V ADJ
C
B
A
1
2
3
4
5

JAPAN ONLY

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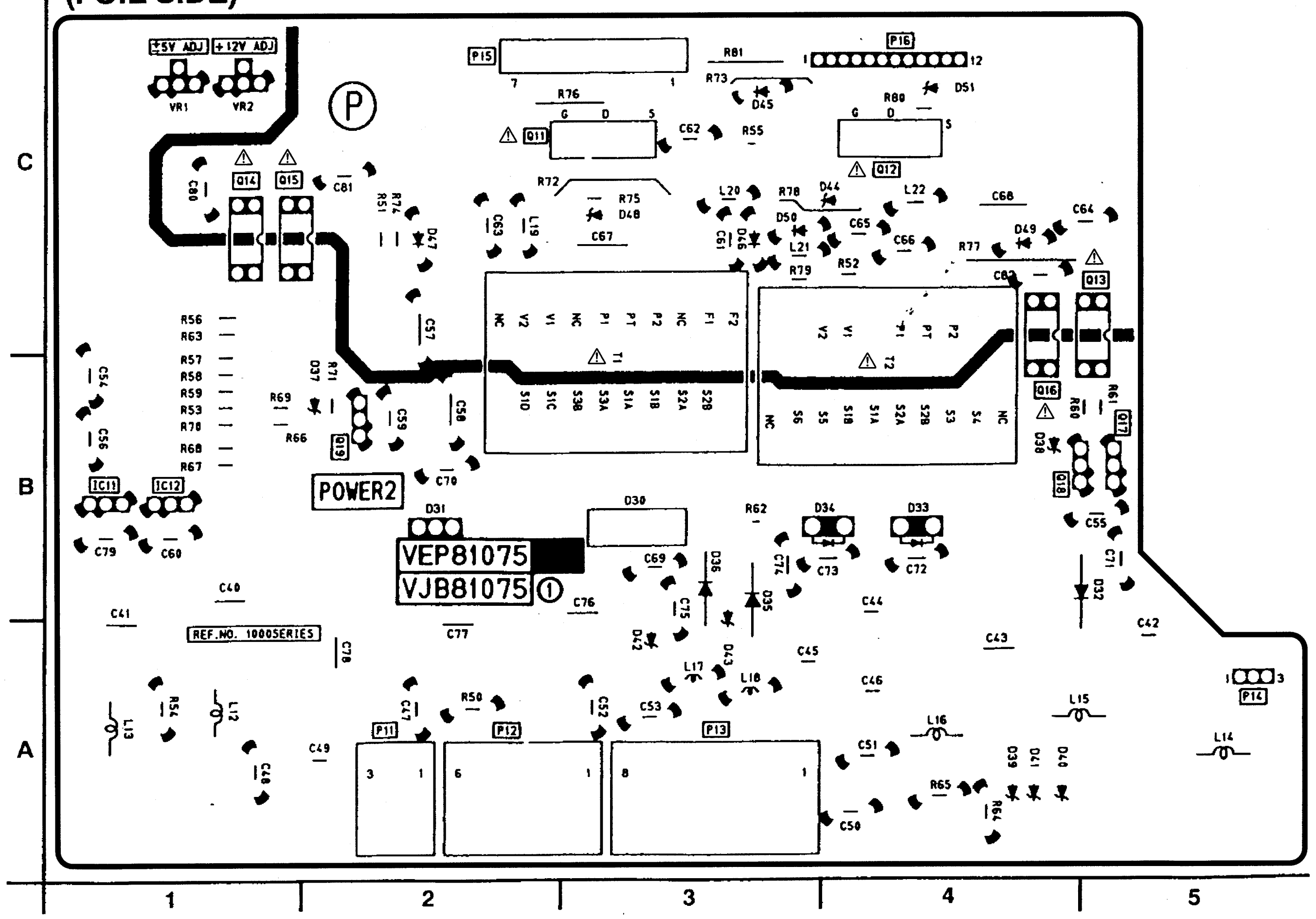
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

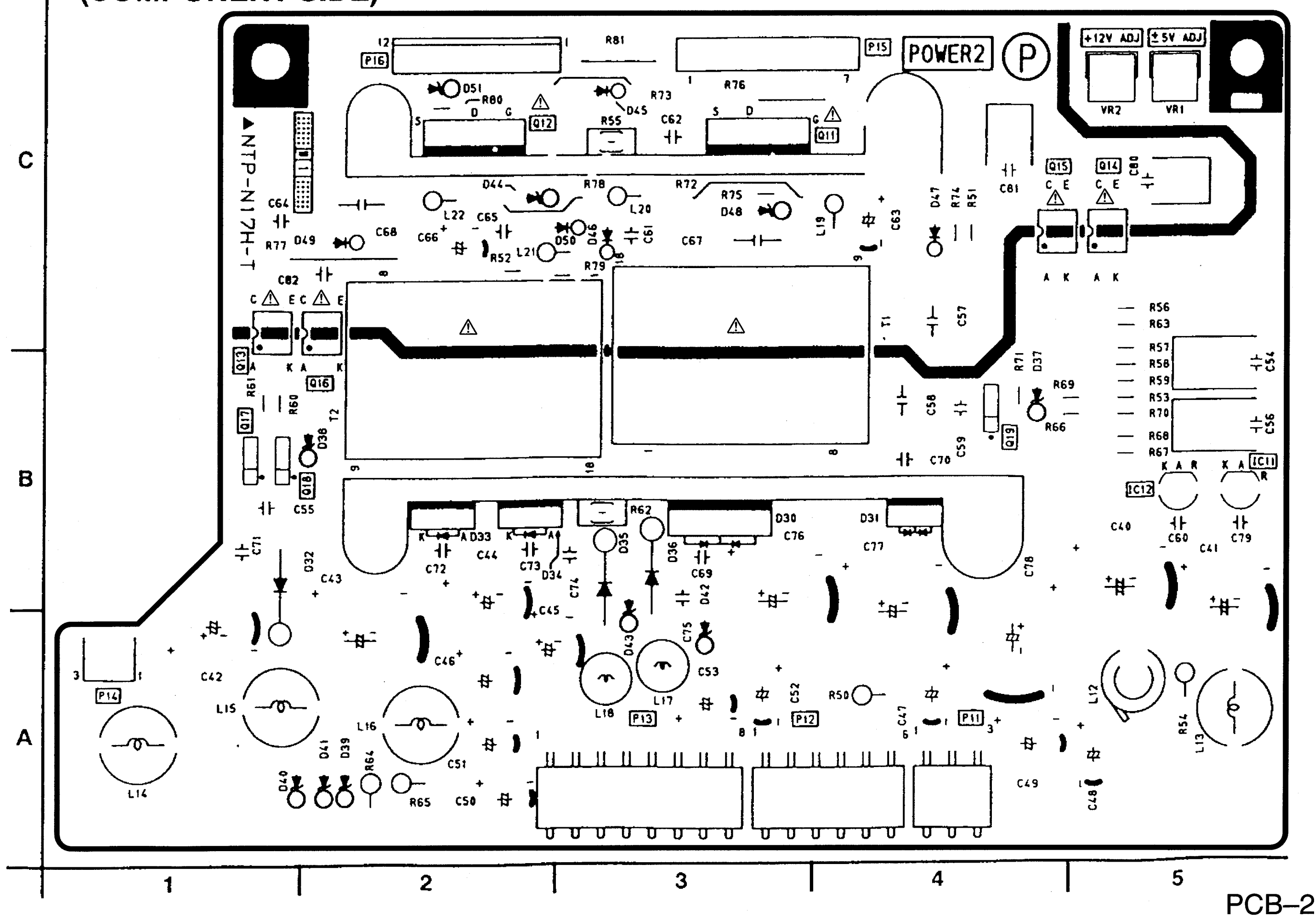
CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

(FOIL SIDE)


+5V ADJ
+12V ADJ
VR1
VR2
P
P15
P16
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
Q19
T1
T2
IC11
IC12
POWER2
VEP81075
VJB81075 ①
REF.NO. 10005SERIES
P11
P12
P13
P14
C
B
A
1
2
3
4
5

(COMPONENT SIDE)


+12V ADJ
+5V ADJ
VR2
VR1
POWER2
P
P15
P16
Q11
Q12
Q13
Q14
Q15
Q16
Q17
Q18
Q19
IC11
IC12
ANTP-N17H-1
P11
P12
P13
P14
C
B
A
1
2
3
4
5

POWER 1 P.C. BOARD (VEP81183A: PAL)

POWER 2 P.C. BOARD (VEP81184B: PAL)

JAPAN ONLY

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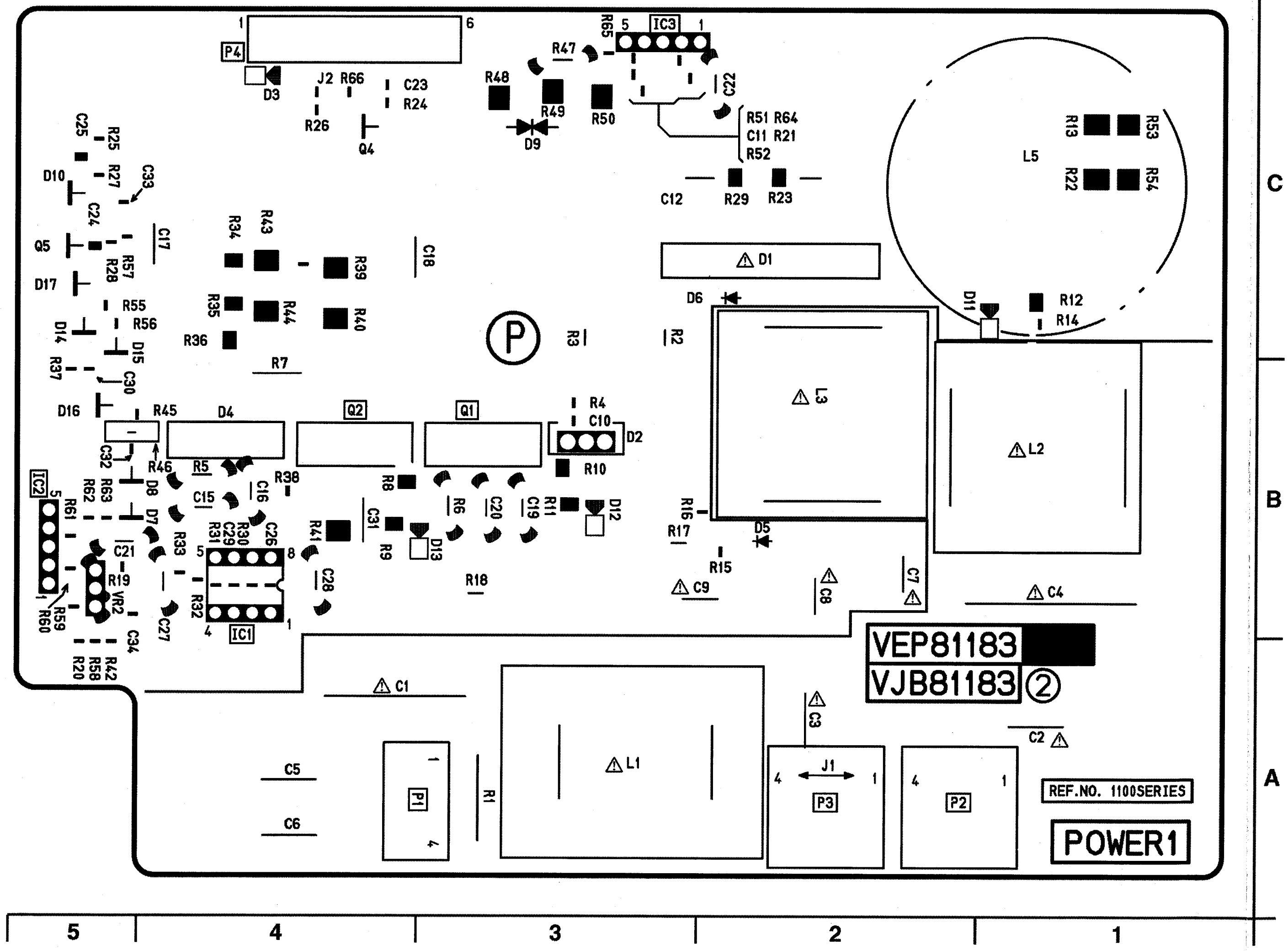
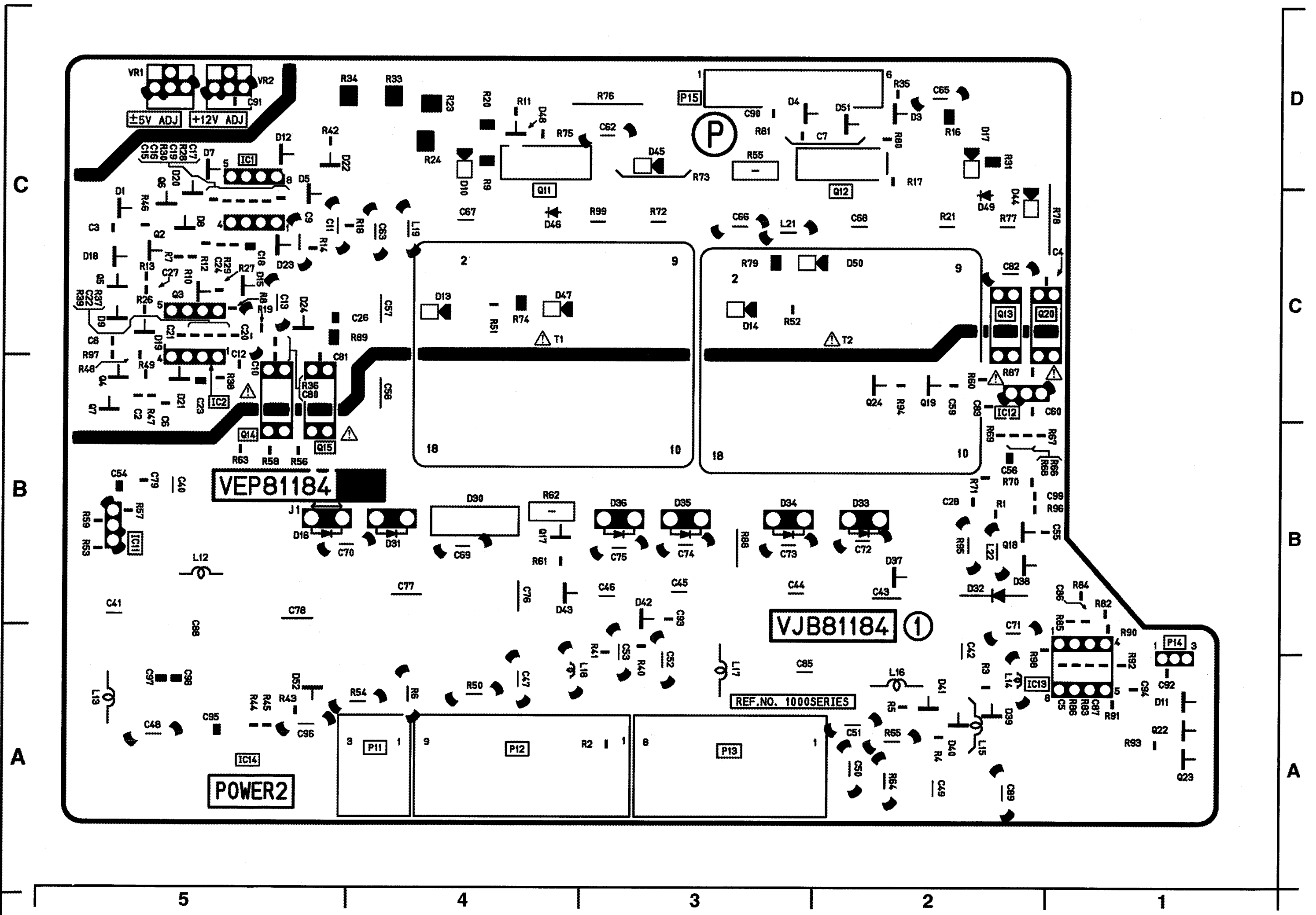
CAUTION

THE □ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.


VEP81183
VJB81183 ②
REF.NO. 1100SERIES
POWER1
5
4
3
2
1

(FOIL SIDE)


VEP81184
VJB81184 ①
REF.NO. 1000SERIES
POWER2
±5V ADJ
+12V ADJ
D
C
B
A
5
4
3
2
1

(FOIL SIDE)